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COMMERCIAL FEEDING-STUFFS

PUBLICATION No. 100 MAY, 1923

"FEED INSPECTOR IN ACTION"

"AN HONEST TAG ON EVERY BAG"

This is what the State Feed Department is trying to give the Maryland Farmer. It also protects the Honest Manufacturer, preventing unfair competition.

STATE FEED DEPARTMENT

Controlled by

UNIVERSITY OF MARYLAND

COLLEGE PARK, MD.

Entered at College Park (Md.) Post-Office as Second-Class Matter.

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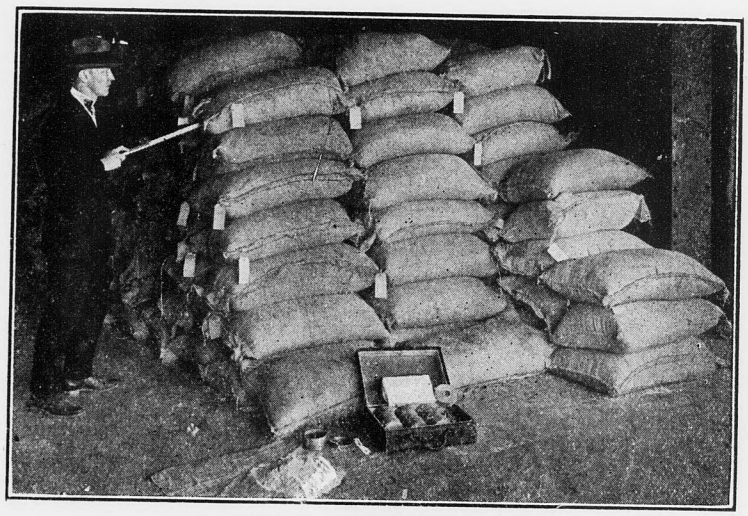

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COMMERCIAL FEEDING-STUFFS

MAY, 1922-MAY, 1925.

Compiled and edited under the supervision and direction of Neil E. Gordon, State Chemist, and Leslie E. Bopst, Chemist in Charge of Feed, Fertilizer and Lime Departments.

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Board of Regents, University of Maryland.

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Eccleston, Baltimore County.

ROBERT CRAIN.....1916-1924
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STATE FEED, FERTILIZER AND LIME DEPARTMENTS

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E. C. DONALDSON, M. S., *Assistant Chemist.*
F. R. DARKIS, B. S., *Assistant Chemist.*

The inspection, analysis and control work of the fertilizer and feed trade is carried on by the State Department, but the State Department is so related to the chemical work of the University that the other men of the Chemical Staff who are mentioned below may be called on for help in time of need; and, further more, it is the purpose of the majority of this Chemical Staff to be carrying on some investigations which bear directly or indirectly on the properties of feeds, fertilizers and lime.

Physical Chemistry.

GORDON, N. E., Ph. D., *Professor.*
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Organic Chemistry.

KHARASCH, M., Ph. D., *Professor.*
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Inorganic Chemistry.

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Analytical Chemistry.

WILEY, R. C., M. S., *Associate Professor.*

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Introduction

The feeding-stuffs inspection work, performed from June 30, 1922—May 1st, 1923, and conducted in accordance with the law regulating the sale of commercial feeding-stuff, consisted in the registration of the several brands to be offered for sale, the inspection of methods of labelling and selling, the collection and analysis of official samples to determine whether or not the guarantees required to be printed upon sacks or attached cards, were correct, the analysis of special samples submitted by residents of the State and the prosecution of those dealers or selling agents, where violations were found to have occurred.

Registrations were accepted prior to January 1st, and subsequently during the year. A number of applications for registration for certain brands were received which could not be accepted for the reason that they were so branded, guaranteed, or included ingredients as to not conform with the law.

In selecting sample for analyses, the Inspectors of the State Department visited the selling agents and dealers in nearly every town and city in Maryland. Each sample was analyzed for protein, fat and fiber to determine the correctness of guarantee. Reports of the results of analyses of each sample were submitted to the manufacturer. This year we intend placing this information in the hands of the selling agents handling their respective feeds.

It was found necessary to prosecute in those cases where violations of a more marked or serious nature were found. However, these were not numerous and in a large number of cases the feeding-stuffs were found to be better than claimed.

Facts Concerning Feeds.

Feed is one of the most important single items which the Maryland farmer has to buy. Especially in the winter time when the cost of feed makes up quite a part of the total cost of milk production. While home-grown grains and roughages properly constitute a large part of the ration of farm stock, it is usually necessary to supplement home supplies with high protein concentrates not produced on the farm. Purchased feeds are largely by-products from the industries, and their use should be encouraged both from the standpoint of profit to the farmer and from the standpoint of national economy.

It is estimated that from five to ten millions of dollars are expended yearly for feeding-stuff in Maryland by farmers and dairymen. The protection of feed buyers in the expenditure of this tremendous sum is of great importance. It is to this task that feed inspection is devoted. The feed law compels the manufacturer to sell a product on its merits, but it cannot compel a farmer to buy any special kind of feed. Therefore, in order to secure benefit from this service, farmers must be acquainted with the purposes of various feeds and know their composition.

The value of feeding-stuffs is determined to a certain extent by their chemical analysis. In order that the purchaser may be able to determine the value of a feeding-stuffs the state law requires that these commodities be labeled with a guaranteed analysis. The analysis of the majority of feeds sold in this state are given in this publication, but it has to be made use of if the consumer is to be protected. Therefore,

DO NOT THROW THIS BULLETIN AWAY.
READ IT. USE IT WHEN YOU BUY FEEDS.

To The Consumer.

As stated above the Maryland Feed Stuff Law exists largely for the protection of the consumers of feed stuffs and since the enforcement of this law a certain improvement in the quality of feeds sold in the state has taken place. However the State Feed Department expects the users of feed to coöperate to the extent at least of not buying feed that is improperly tagged, for such a feed may be of inferior grade. Study the guaranteed analysis and the list of ingredients, given on the container, using this information as a guide in the selection of feed that suits your particular need. It is to be regretted that many of the feeders are guided more by the price of a feed than the analysis and ingredients. The feeder should bear in mind the fact that the per unit cost of the nutritive elements is always less in high grade feeds than in low grades and that High Grade Feeds are Always the Cheapest, in the long run.

To Selling Agents.

Before engaging in the sale of feeding-stuffs write for a copy of the law and acquaint yourself with its provisions.

Consult the reports of this department and contract to represent only such companies as have a good record of inspection. Do not represent manufacturers who fail to tag their commodities or who ship deficient or adulterated feeding-stuffs.

Keep in mind at all times that the same penalty attaches to exposing or offering unlabeled feed for sale as for selling the same and that the local dealer is directly responsible for feed in his possession failing to meet the requirements of the law. Dealers should specify on all orders that the manufacturers comply with the State and Federal Laws in every respect. If you are in doubt regarding any manufacturer or feeding-stuff, write for information. This department is always ready to advise you.

To Manufacturers.

Each brand of feed must be registered with the State Feed Department, preferably upon blank registration form furnished by this department. In filling out the registration form, a true statement of the guaranteed analysis and of all ingredients of which the feed is composed must be given and these must remain constant throughout the year.

Control Officials expect feed manufacturers to secure registrations before the feed is shipped. Do not wait for notification and then write an apologetic communication to the effect that this was overlooked in the rush of work. It precipitates a condition that is not pleasant for any of the parties concerned, the retailer is required to withdraw the feed from sale, until the manufacturer has been given an opportunity to register the feed; and as you know, a circumstance of this kind does not tend towards repeat orders.

The law definitely provides that the manufacturer shall state only the minimum percentage of protein and fat. The object of this is to prevent the purchaser from being misled by a sliding scale of guarantee. For example, without this provision in the law when a guarantee shows forty-five per cent to fifty-five per cent Protein, an analysis of forty-five per cent is all that is necessary to meet the guarantee, although the guarantee may lead the purchaser to believe that he may get close to fifty-five per cent, when as a matter of fact he is more apt to get forty-five per cent or even less. So far, this year has shown quite an improvement in this regard.

It is not the intention nor the policy of the Feed Department to see how many prosecutions we can instigate, but rather to carry on a constructive control in order that the sale of good feed may be promoted. And it should be the purpose of all feed regulatory measures to require the manufacturers of feeding-stuffs to prepare a wholesome article and to honestly inform the public, as to the character, type and kind of feed offered. We are assuring all those with whom we are brought in contact that it is our aim to cause as little interference with legitimate business as is consistent with the Maryland Feed Law.

Operation of the Law.

On the whole feeds have been sold in compliance with the law. Minor violations were for the most part due to failure of manufacturers or dealers to understand its provisions, or a lack of proper chemical control.

Approximately seventy five Feeds were removed from sale due to non-payment of registration fee. We have had a few cases of inferiority of representation, or more commonly expressed, "below guaranty," and have compelled proper branding; also we have supplied the Federal authorities with information which led to their taking action. Faulty registrations have been corrected in several cases by new tags being supplied by the manufacturer.

Instances like the above are steadily decreasing. Most manufacturers and dealers recognize that only by supporting the feed law can they do honest business without dishonest competition. Consumers likewise find that the law is of immense help to them and are becoming more discriminating, consequently, the dishonest manufacturer is finding it harder and harder to find customers.

Feeding Values.

The chief objects of feeding farm live stock and poultry are to produce meat, milk, eggs, wool and feathers and to supply energy for doing work. The most common measures of the productive value of a feed is the quantity required to produce 100 pounds of gain in the live weight, and the quantity necessary to maintain the weight of an animal. There are also other products of feeding, such as milk and eggs which are more exact measures.

Ever since the feeding of animals has been seriously studied, some method of comparing and valuing feeds has been sought. The method that has been most generally used is based on the chemical composition of the material. From time to time criticism is made of the feeding-stuff law by certain seed manufacturers and consumers, principally on account of the fact that the mere guarantee of chemical composition and statement of ingredients required do not give all the information desired. While it is true that more recent investigations indicate that a ration should be compounded with reference not only to its chemical composition but also to its net energy value, its mineral content, proteins from different sources, and essential vitamines, yet the percentage of nutrients such as protein, fat, fiber and nitrogen free extract, still remains the basis of practically all feeding standards. A guarantee of the percentage of digestible material in a feeding-stuff would be more useful, but is impractical because of the expense of determining the accuracy of such guarantees. The man who studies chemical analysis and takes into consideration the uses for which his feeds are most suitable is able not only to use his feed more economically, but also to purchase the nutrients he needs in the by-products of mills and packing houses more cheaply than his neighbor who ignores the help of analyses. Accepted guarantees do not necessarily imply quality. Inferior goods may be legally sold if correctly guaranteed.

Chemical analyses serve as the basis for inspection and regulation of feeds. In addition to the National Food & Drug Law, 41 states in the Union now have laws regulating more or less rigidly the sale of commercial feeds. Most of these laws include requirements that are very similar, nearly all of them requiring the containers or attached cards to be printed with guarantees, for protein, fat and fiber, and a list of the ingredients if a compounded feed.

Feeds usually vary in nutritive value, due to the proportions of water, ash, protein, crude fiber, fat, nitrogen free extract and vitamines which they contain. Much of the value of these nutrients depends upon the digestive ability of the animal. This varies a great deal in different classes of animals. Sheep and cattle digest crude fiber more readily than other domestic animals, hogs on the other hand require feed high in protein and digestible carbohydrates. The digestibility of feeds depends upon structure, palatability, stage of maturity, the combination with which they are fed and preparation.

Cattle will usually eat more oat straw than wheat straw of the same fineness. When two feeds are fed together, the percentage of the nutrients digested are not the same as the average of the two, when each is fed separately. The digestibility of hard hulled grains, such as barley, is usually increased in grinding. The value of protein is usually decreased by cooking.

Various classes of feeds have different nutritive values for which reason manufacturers use a variety of feeds in a ration so that one may supply the deficiencies of others and thereby produce a better feed than single ingredients. Cereal grains are usually the principal feeds in a fattening ration. Silage and green feeds are usually found very palatable and are richer in vitamines than grain and mature plants. Dry fibrous material, like straw, hay and stover aid the cow, horse and sheep in digesting concentrates. Cottonseed meal, linseed meal, gluten meal, tankage and meat meals are rich in digestible protein. Also linseed meal and wheat bran have very beneficial laxative properties.

Explanation of Terms used in Analysis.

Moisture.

Moisture is present to some extent in the dryest feeds. When present in excess, water constitutes a filler in concentrated feeds and very often affects their keeping qualities. The changes in moisture content are very important in connection with sampling and analysis.

Crude Fat.

Crude Fat includes all the substances which dissolve in dry ether. In a feed it consists principally of oils and fats, but may also contain small amount of waxes and the green coloring matter of plants. The fat in a feed is two-fold in its functions in that it may be utilized directly to produce animal fat, and at the same time act as a producer of heat and energy in the animal body.

Crude Protein.

Crude Protein is the term employed to designate all the compounds of feeding-stuffs containing nitrogenous matter. Protein is of the greatest importance in a feed stuff, for it is utilized in building up the muscular tissues and is a constituent of the hair, hoofs horns and other nitrogenous parts of the animal body.

Crude Fiber.

Crude Fiber is the essential constituent of the walls of the vegetable cells which go to make up the structure of all plants, and as nearly all feed stuffs are derived from vegetable sources, it naturally follows that all feed stuffs contain more or less fiber. Usually only a small percentage of the fiber in a feed is easily digested, hence, a feed of high fiber content is of low feeding value and is not to be desired.

Ash.

Ash is a mineral portion of the feed which remains after the feed is burned. These mineral constituents, which are usually furnished by natural feeding-stuffs are essential to the process of nutrition of the animal body as well as an absolute necessity for the building of bone.

Nitrogen Free Extract.

Nitrogen Free Extract includes all the rest of the dry matter of a feeding-stuff after the ash, crude protein, crude fat, crude fiber and moisture have been removed. It embraces all sugars, starches and pentosans, etc., which may be determined separately.

Carbohydrates.

Carbohydrates are the sum of the Nitrogen Free Extract and the fiber. Since carbohydrates include the fiber or the woody indigestible part of the feed, one must remember that high fiber means low quality while low fiber usually means high quality.

Standards Adopted.

The Maryland Feed Stuff Law gives the State Chemist the power to refuse the registration of any feeding-stuff under a name which would be misleading as to the materials of which it is made, or which does not conform to the standards adopted. If a feeding-stuff is registered and then discovered to be in violation of the Standards, the State Chemist has the power to cancel such registration.

Feeding-stuffs cannot be sold under names that are false or misleading. Should the manufacturer desire to use a name not included in the following list, it would be advisable for him to communicate with the State Feed Department before making application for registration.

The Definitions of the Feed Control Officials given below, of which there are approximately 90, are used as our Standards and are adhered to very closely when a feed is offered for registration, and are also a great help when establishing the adulteration of certain feeding materials.

DEFINITIONS OF FEEDING-STUFFS

Meal is the clean, sound, ground product of the entire grain, cereal or seed which it purports to represent.

Chop is a ground or chopped feed composed of one or more different cereals or by-products thereof. If it bears a name descriptive of the kind of cereals, it must be made exclusively of the entire grains of those cereals.

Ear Corn Chops is corn and cob, chopped, without the husk, with not a greater proportion of cob than occurs in the ear corn in its natural state.

Head Chops consist of the entire head of the grain sorghums, chopped, and should bear the name of the sorghum from which it is made. This includes, among others, kafir head chops, milo head chops, feterita head chops, and sorghum head chops.

Head Stems consist of the head of the grain sorghums, from which the grain has been removed, and should bear the name of the sorghum from which it is made.

Chopped Alfalfa is the entire alfalfa hay, chopped and not ground finely enough to become a meal. It must not contain an admixture of alfalfa straw or other foreign material.

Alfalfa meal is the entire alfalfa hay ground and does not contain an admixture of ground alfalfa straw or other foreign materials.

ANIMAL PRODUCTS

Blood Meal is ground dried blood.

Cracklings are the residue after partially extracting the fats and oils from the animal tissues. If they bear a name descriptive of their kind, composition or origin, they must corrrespond thereto.

Digester Tankage is the residue from animal tissues, exclusive of hoof and horn, specially prepared for feeding purposes by tanking under live steam, drying under high heat, and suitable grinding, and contains less than 10 per cent. phosphoric acid. (P205)

Digester Meat and Bone Tankage is the residue from animal tissues, exclusive of hoof and horn, specially prepared for feeding purposes by tanking under live steam, drying under high heat, and suitable grinding, and contains more than 10 per cent. phosphoric acid. (P205)

Meat Scrap and Meat Meal are the ground residues from animal tissues, exclusive of hoof and horn, and contains less than 10 per cent. phosphoric acid (P205). If they bear a name descriptive of their kind, composition or origin, they must correspond thereto.

Meat and Bone Scrap and Meat and Bone Meal are the ground residues from animal tissues, exclusive of hoof and horn, and contains more than 10 per cent, phosphoric acid (P205). If they bear a name descriptive of their kind, composition or origin, they must correspond thereto.

BARLEY PRODUCTS

Barley Hulls are the outer coverings of the barley.

Barley Feed is the entire by-product resulting from the manufacture of pearl barley from clean barley.

Barley Mixed Feed is the entire offal from the milling of barley flour from clean barley and is composed of barley hulls and barley middlings.

Ground Barley is the entire product obtained by grinding clean sound barley, containing not less than 90 per cent. pure barley and not more than 10 per cent. of other grains, weed seeds and other foreign material and not more than 6 per cent. fiber. Provided that no portion of this stated 10 per cent. of other grains, weed seeds or other foreign material shall be deliberately added.

Mixed Feed Barley is the entire product obtained by grinding country run barley containing not less than 75 per cent. pure barley and not more than 25 per cent. of other grains, weed seeds and other foreign material. Provided that no portion of this stated 25 per cent. of other grains, weed seeds or foreign material shall be deliberately added. The ingredients must be stated as barley, other grains, weed seeds and other foreign material.

BREWERS' AND DISTILLERS' PRODUCTS

Brewers' Dried Grains are the properly dried residue from cereals obtained in the manufacture of beer.

Distillers' Dried Grains are the dried residue from cereals obtained in the manufacture of alcohol and distilled liquors. The products shall bear the designation indicating the cereal predominating.

Distillers' Corn Solubles, a by-product from the manufacture of alcohol from corn, is a mash liquor concentrated after the removal of the alcohol and wet grains.

Distillers' Corn and Rye Solubles, a by-product from the manufacture of alcohol from corn and rye, is a mash liquor concentrated after the removal of the alcohol and wet grains.

Distillers' Rye Solubles, a by-product from the manufacture of alcohol from rye, is a mash liquor concentrated after the removal of the alcohol and wet grains.

Malt Sprouts are the sprouts of the barley grain obtained in the malting process. Sprouts derived from any other malted cereal must be designated by the name of that cereal.

BUCKWHEAT PRODUCTS

Buckwheat Shorts or Buckwheat Middlings are that portion of the buckwheat grain immediately inside of the hull after separation from the flour.

CORN PRODUCTS

Corn Bran is the outer coating of the corn kernel.

Corn Feed Meal is the by-product obtained in the manufacture of cracked corn, with or without aspiration products added to the siftings. This name is also correctly applied to the by-product obtained in the manufacture of table meal from the whole grain by the non-degerminating process.

Corn Germ Cake is the product obtained in the manufacture of starch, glucose and other corn products and consists of the germ from which part of the corn oil has been extracted.

Corn Germ Meal is ground corn germ cake.

Grits are the hard, flinty portions of Indian corn containing no bran or germ.

Corn Gluten Meal is that part of commercial shelled corn that remains after the separation of the larger part of the starch, the germ and the bran, by the processes employed in the manufauture of cornstarch and glucose. It may or may not contain corn solubles.

Corn Gluten Feed is that portion of commercial shelled corn that remains after the separation of the larger part of the starch and the germs by the processes employed in the manufacture of cornstarch and glucose. It may or may not contain corn solubles.

Maltose Process Corn Gluten Feed is the dried residue from degermed corn, after removal of starch in the manufacture of malt syrup.

Hominy Feed, Hominy Meal or Hominy Chop is the kiln-dried mixture of the mill run bran coating, the mill run germ, with or without a partial extraction of the oil and a part of the starchy portion of the white corn kernel obtained in the manufacture of hominy, hominy grits and corn meal by the degerminating process.

Yellow Hominy Feed, Yellow Hominy Meal or Yellow Hominy Chop is a kiln-dried mixture of the mill-run bran coating, the mill-run germ, with or without a partial extraction of the oil and a part of the starchy portion of the yellow corn kernel obtained in the manufacture of yellow hominy grits and yellow corn meal by the degerminating process.

OIL CAKE

Oil Cake is the product obtained after the extraction of part of the oil by crushing, cooking and hydraulic pressure, or by crushing, heating and the use of solvents from seeds which have been screened and cleaned of weed seeds and other foreign materials by the most improved commercial processes. When used alone the term "Oil Cake" shall be understood to designate linseed cake as defined. When used to cover any other product the name of the seed from which it is obtained shall be prefixed to the word "Oil Cake."

Oil Meal or Ground Oil Cake is oil cake ground to a meal.

COTTONSEED PRODUCTS

Cottonseed Meal is a product of the cottonseed only, composed principally of the kernel with such portion of the hull as is necessary in the manufacture of oil; provided that nothing shall be recognized as cottonseed meal that does not conform to the foregoing definition and that does not contain at least 36 per cent. of protein.

41.12 Per Cent. Protein Cottonseed Meal, Choice Quality, must be finely ground, not necessarily bolted, perfectly sound and sweet in odor, yellow, free from excess of lint, and must contain at least 41.12 per cent. crude protein, equivalent to 8 per cent. of ammonia.

Cottonseed Meal not fulfilling the above requirements as to color, odor or texture, shall be branded Off Quality.

38.56 Per Cent. Protein Cottonseed Meal, Prime Quality, must be finely ground, not necessarily bolted, of sweet odor, reasonably bright in color, yellow, not brown or reddish, free from excess of lint, and must contain at least 38.56 per cent. crude protein equivalent to 7½ per cent. of ammonia.

Cottonseed Meal not fulfilling the above requirements as to color, odor or texture, shall be branded Off Quality.

36 Per Cent. Protein Cottonseed Meal, Good Quality, must be finely ground, not necessarily bolted, of sweet odor, reasonably bright in color, free from excess lint and must contain at least 36 per cent. crude protein equivalent to 7 per cent. of ammonia.

Cottonseed Meal not fulfilling the above requirements as to color, odor or texture, shall be branded Off Quality.

Cottonseed Feed is a mixture of cottonseed meal and cottonseed hulls, containing less than 36 per cent. of protein.

Cold Pressed Cottonseed is the product obtained from the subjection of the whole undecorticated cottonseed to the cold pressure process for the extraction of oil and includes the entire cottonseed less the oil extracted.

Ground Cold Pressed Cottonseed is the product obtained by grinding cold pressed cottonseed.

LINSEED AND FLAX PRODUCTS

Linseed Cake or Meal is oil cake or meal made from flaxseed, provided that the final product shall contain less than 6 per cent. of weed seeds and other foreign materials and, provided, further that no portion of the stated 6 per cent. of weed seeds and other foreign materials shall be deliberately added.

Old Process Oil Meal, Old Process Linseed Meal is oil meal as defined or linseed meal as defined produced by crushing, cooking and hydraulic pressure.

New Process Oil Meal, New Process Linseed Meal is oil meal as defined or linseed meal as defined produced by crushing, heating and the use of solvents.

Flax Plant By-Product is that portion of the flax plant remaining after the separation of the seed, the bast fiber and a portion of the shives, and consists of flax shives, flax pods, broken and immature flax seeds, and the cortical tissues of the stem.

Ground Flaxseed or Flaxseed Meal is the product obtained by grinding flaxseed which has been screened and cleaned of weed seeds and other foreign materials by the most improved commercial pro-

cesses, provided that the final product shall contain less than four per cent. of weed seeds and other foreign materials, and provided further that no portion of the stated four per cent. of weed seeds and other foreign materials shall be deliberately added.

Unscreened Flaxseed Oil Feed Cake is the product obtained by extraction of part of the oil from unscreened flaxseed by crushing, cooking and hydraulic pressure, or by crushing, heating and the use of solvents. The ingredients shall be stated as partially extracted flaxseed and foreign seeds (wheat, wild buckwheat, pigeon grass, wild mustard, etc.).

Ground Unscreened Flaxseed Oil Feed is the ground unscreened flaxseed oil feed cake.

Screenings Oil Feed is the ground product obtained after extraction of part of the oil by crushing, cooking and hydraulic pressure, or by crushing, heating and the use of solvents from the smaller imperfect grains, weed seeds and other foreign materials, having feeding value, separated in cleaning the grain. The name of the grain from which the screenings are separated shall be prefixed to "screenings oil feed."

OAT PRODUCTS

Oat Groats are the kernels of the oat.

Oat Hulls are the outer coverings of the oat.

Oat Middlings are the floury portions of the oat groat obtained in the milling of rolled oats.

Oat Shorts are the covering of the oat grain lying immediately inside the hull, being a fuzzy material carrying with it considerable portions of the fine floury part of the groat obtained in the milling of rolled oats.

Clipped Oat By-Product is the by-product obtained in the manufacture of clipped oats. It may contain the light chaffy material broken from the end of the hulls, empty hulls, light, immature oats and dust. It must not contain an excessive amount of oat hulls.

PEANUT PRODUCTS

Peanut Oil Cake is the residue after the extraction of part of the oil by pressure or solvents from peanut kernels.

Peanut Oil Meal is ground peanut oil cake.

Unhulled Peanut Oil Feed is the ground residue obtained after extraction of part of the oil from whole peanuts, and the ingredients shall be designated as "Peanut Meal and Hulls."

RICE PRODUCTS

Rice Bran is the pericarp or bran layer of the rice, with only such quantity of hull fragments as is unavoidable in the regular milling of rice.

Rice Hulls are the outer coverings of the rice.

Rice Polish is the finely powdered material obtained in polishing the kernel.

RYE PRODUCTS

Rye Middlings or Rye Feed is the by-product obtained from the manufacture of ordinary "100 per cent." rye flour from cleaned and scoured rye grain.

Rye Red Dog is a mixture of low-grade flour, fine particles of bran and the fibrous offal from the "tail of the mill."

VELVET BEAN PRODUCTS

Velvet Bean Meal is ground velvet beans containing only an unavoidable trace of hull or pods.

Ground Velvet Bean and Pod is the product derived by grinding velvet beans "in the pod." It contains no additional pods or other materials.

WHEAT PRODUCTS

Wheat Bran is the coarse outer covering of the wheat kernel as separated from cleaned and scoured wheat in the usual process of commercial milling.

Standard Millings consists mostly of fine particles of bran, germ and very little of the fibrous offal obtained from the "tail of the mill." This product must be obtained in the usual commercial process of milling and shall not contain more than 9.5 per cent. crude fiber.

Flour Middlings shall consist of standard middlings and red dog flour combined in the proportions obtained in the usual process of milling and shall not contain more than 6.0 per cent. crude fiber.

Red Dog Flour consists of a mixture of low-grade flour, fine particles of bran and the fibrous offal from the "tail of the mill" and shall not contain more than 4.0 per cent. crude fiber. ,

Brown Shorts (Red Shorts) consists mostly of the fine particles of bran, germ and very little of the fibrous offal obtained from the "tail of the mill." This product must be obtained in the usual commercial process of milling.

Gray Shorts (Gray Middlings or Total Shorts) consists of the fine particles of the outer bran, the inner bran or bee-wing bran, the germ and the offal or fibrous materials obtained from the "tail of the mill." This product must be obtained in the usual process of commercial milling.

White Shorts or White Middlings consist of a small portion of the fine bran particles and the germ and a large portion of the fibrous offal obtained from the "tail of the mill." This product must be obtained in the usual process of flour milling.

Wheat Mixed Feed (Mill Run Wheat Feed) consists of pure wheat bran and the gray or total shorts of flour middlings combined in the proportions obtained in the usual process of commercial millings.

Wheat Bran and Standard Millings consists of the two commodities as defined above, mixed in the proportions obtained in the usual process of commercial milling.

Screenings consists of the smaller imperfect grains, weed seeds and other foreign materials, having feeding value, separted in cleaning the grain.

Scourings consist of such portions of the cuticle, brush, whitecaps, dust, smut and other materials as are separated from the grain in the usual commercial process of scouring.

(*Note*) If to any of the wheat or rye by-product feeds there should be added screenings or scourings—as above defined, either ground or unground, bolted or unbolted, such brand shall be so registered, labeled and sold as clearly to indicate this fact. The word "Screenings or "Scourings" as the case may be, shall appear as a part of the name or brand and shall be printed in the same size and face of type as the remainder of the brand name. When the word "Screenings" appears it is not necessary to show also on the labeling the word "Scourings."

MISCELLANEOUS PRODUCTS

Dried Beet Pulp is the dried residue from sugar beets which have been cleaned and freed from crowns, leaves and sand, and which have been extracted in the process of manufacturing sugar.

Cocoanut Oil Meal or "Copra Oil Meal" is the ground residue from the extraction of part of the oil from the dried meat of the cocoanut.

Fish Residue Meal is the clean undecomposed residue from the manufacture of glue or other fishery products from non-oily fish.

Ivory Nut Meal is ground ivory nuts.

Palm Kernel Oil Meal is the ground residue from the extraction of part of the oil by pressure or solvents from the kernel of the fruit of *Elaeis guineensis* or *Elaeis malanococca.*

Yeast or Vinegar Dried Grains are the properly dried residue from the mixture of cereals, malt and malt sprouts (sometimes cottonseed meal) obtained in the manufacture of yeast or vinegar, and consists of corn or corn and rye from which most of the starch has been extracted, together with malt added during the manufacturing process to change the starch to sugars, and malt sprouts (sometimes cottonseed meal) added during the manufacturing process to aid in filtering the residue from the wort and serve as a source of food supply for the yeast.

TENATIVE STANDARDS FOR WHEAT MILL FEEDS

With or Without Screenings.

	Fiber (Max)
Standard Middlings	9.5%
Flour Middlings	6.0%
Red Dog Flour	4.0%
Brown Shorts	6.5%
Gray Shorts	5.5%
White Shorts	3.5%
Wheat Mixed Feed	8.5%

RESOLUTIONS ADOPTED

Resolved that it is the sense of this Association that we understand the term "Nitrogen Free Extract" to cover the product indicated by the percentage obtained by subtracting from 100 per cent. the sum of the percentages of Ash, Moisture, Protein, Fat and Fiber.

Resolved that the term "Carbohydrates" be interpreted to cover the product indicated by the percentage obtained by the addition of the percentages of Crude Fiber and Nitrogen Free Extract.

Resolved that this Association goes on record as condemning the practice of the packing of cottonseed meal and other feeds in bags containing 99-lbs. net and billing and charging for the same, 100-lbs. net.

Resolved that it is the sense of this Association that a ton of feed be 2,000 pounds, net.

The following pages contain a detailed report of the results obtained in the inspection of feeds during the season 1922-23. Consumers and agents are advised to study carefully this table and purchase from and represent companies which ship feed labeled according to law and who maintain their guarantees in every respect.

The results are given in percentage or pounds in a hundred.

Wheat Mixed Feed (Mill Run Wheat Feed) consists of pure wheat bran and the gray or total shorts of flour middlings combined in the proportions obtained in the usual process of commercial millings.

Wheat Bran and Standard Millings consists of the two commodities as defined above, mixed in the proportions obtained in the usual process of commercial milling.

Screenings consists of the smaller imperfect grains, weed seeds and other foreign materials, having feeding value, separted in cleaning the grain.

Scourings consist of such portions of the cuticle, brush, whitecaps, dust, smut and other materials as are separated from the grain in the usual commercial process of scouring.

(*Note*) If to any of the wheat or rye by-product feeds there should be added screenings or scourings—as above defined, either ground or unground, bolted or unbolted, such brand shall be so registered, labeled and sold as clearly to indicate this fact. The word "Screenings or "Scourings" as the case may be, shall appear as a part of the name or brand and shall be printed in the same size and face of type as the remainder of the brand name. When the word "Screenings" appears it is not necessary to show also on the labeling the word "Scourings."

MISCELLANEOUS PRODUCTS

Dried Beet Pulp is the dried residue from sugar beets which have been cleaned and freed from crowns, leaves and sand, and which have been extracted in the process of manufacturing sugar.

Cocoanut Oil Meal or "Copra Oil Meal" is the ground residue from the extraction of part of the oil from the dried meat of the cocoanut.

Fish Residue Meal is the clean undecomposed residue from the manufacture of glue or other fishery products from non-oily fish.

Ivory Nut Meal is ground ivory nuts.

Palm Kernel Oil Meal is the ground residue from the extraction of part of the oil by pressure or solvents from the kernel of the fruit of *Elaeis guineensis* or *Elaeis malanococca.*

Yeast or Vinegar Dried Grains are the properly dried residue from the mixture of cereals, malt and malt sprouts (sometimes cottonseed meal) obtained in the manufacture of yeast or vinegar, and consists of corn or corn and rye from which most of the starch has been extracted, together with malt added during the manufacturing process to change the starch to sugars, and malt sprouts (sometimes cottonseed meal) added during the manufacturing process to aid in filtering the residue from the wort and serve as a source of food supply for the yeast.

TENATIVE STANDARDS FOR WHEAT MILL FEEDS

With or Without Screenings.

	Fiber (Max)
Standard Middlings	9.5%
Flour Middlings	6.0%
Red Dog Flour	4.0%
Brown Shorts	6.5%
Gray Shorts	5.5%
White Shorts	3.5%
Wheat Mixed Feed	8.5%

RESOLUTIONS ADOPTED

Resolved that it is the sense of this Association that we understand the term "Nitrogen Free Extract" to cover the product indicated by the percentage obtained by subtracting from 100 per cent. the sum of the percentages of Ash, Moisture, Protein, Fat and Fiber.

Resolved that the term "Carbohydrates" be interpreted to cover the product indicated by the percentage obtained by the addition of the percentages of Crude Fiber and Nitrogen Free Extract.

Resolved that this Association goes on record as condemning the practice of the packing of cottonseed meal and other feeds in bags containing 99-lbs. net and billing and charging for the same, 100-lbs. net.

Resolved that it is the sense of this Association that a ton of feed be 2,000 pounds, net.

The following pages contain a detailed report of the results obtained in the inspection of feeds during the season 1922-23. Consumers and agents are advised to study carefully this table and purchase from and represent companies which ship feed labeled according to law and who maintain their guarantees in every respect.

The results are given in percentage or pounds in a hundred.

No.	Name of Manufacturer and Feeding Stuffs.	Place of Sampling.	Protein		Fat or Ether Extract		Crude Fiber	
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed
	Allen & Wheeler Co., Troy, Ohio.							
43634	Pure Wheat Feed Trojan Bran		**14.92**	14.50	**4.58**	4.00	**10.08**	9.50
43633	Wheat Feed Trojan Middlings		**16.75**	15.00	**4.98**	4.00	**6.40**	6.00
	American Agricultural Chemical Co., Baltimore Md.							
43513	Pure Protox Ground Meat Scrap	Baltimore	**57.04**	55.00	**12.13**	10.00	**2.80**	
	American Cotton Oil Co., New York, N. Y.							
43386	ACO Brand Cotton Seed Meal	Mt. Airy	**40.94**	41.18	**6.90**	7.00	**11.40**	10.00
43573	Longhorn Brand Cotton Seed Meal	Baltimore	**42.67**	43.00	**7.31**	6.00	**8.65**	12.00
43553	Longhorn Brand Cotton Seed Meal		**44.75**	43.00	**7.10**	6.00	**8.35**	12.00
43554	Surety Brand Cotton Seed Meal		**37.12**	36.00	**6.10**	5.50	**13.05**	14.00
43567	Surety Brand Cotton Seed Meal	Baltimore	**41.21**	36.00	**6.99**	5.50	**8.88**	14.00
	American Hominy Co., Chicago, Ill.							
43601	Homcoline Corn Germ Meal		**18.95**	17.00	**9.05**	5.00	**5.85**	7.00
43602	Homco Hominy Feed		**11.50**	10.00	**6.93**	6.00	**4.95**	6.00
	American Maize Products Co., New York, N. Y.							
43482	Cream of Corn Gluten Feed	Baltimore	**26.33**	23.00	**2.45**	1.50	**7.82**	8.50
	American Milling Co., Peoria, Ill.							
43363	American Dairy Ration	Fallston	**25.89**	24.00	**3.66**	4.00	**10.46**	10.00
43584	Amco Old Process Linseed Meal & Old Process Screenings Oil Feed	Baltimore	**34.23**	30.00	**6.32**	5.00	**8.95**	10.00
43483	Amco Old Process Linseed Meal	Baltimore	**32.82**	30.00	**6.10**	5.00	**7.27**	10.00
43497	Chick Mash	Baltimore	**21.24**	18.00	**4.18**	4.00	**7.22**	10.00
43415	Cluck Cluck Scratch Feed	Baltimore	**11.06**	10.00	**3.63**	2.50	**2.80**	5.00
43498	Sucrene Chick Feed	Baltimore	**10.44**	10.00	**2.85**	2.50	**1.85**	5.00
43598	Sucrene Chick Feed		**11.41**	10.00	**2.63**	2.50	**2.60**	5.00
43338	Sucrene Dairy Feed	Hagerstown	**17.55**	16.50	**5.59**	3.00	**10.39**	12.00
43499	Sucrene Poultry Mash	Baltimore	**19.74**	18.00	**4.50**	3.50	**7.63**	12.00
43710	Sucrene Horse Feed with Alfalfa		**10.97**	10.00	**2.85**	2.50		

43500	Tip Top Scratch Feed	Baltimore	**10.35**	10.00	**3.55**	2.50	**2.73**	5.00
43599	Tip Top Scratch Feed		**10.88**	10.00	**4.20**	2.50	**2.80**	5.00
	Anderson Bros. Co., Inc., York, Pa.							
43629	A. B. C. Chick Feed		**11.85**	10.00	**5.43**	3.00	**2.30**	3.00
43713	Dairy Feed 24% Protein		**24.04**	24.00	**4.65**	5.00	**8.50**	12.00
43262	Horse Feed	Baltimore	**10.00**	10.00	**2.55**	3.00	**6.88**	14.00
43630	Laying Mash		**21.50**	20.00	**5.68**	5.00	**6.23**	7.00
43631	Scratch Feed		**10.35**	10.00	**3.00**	3.00	**2.70**	4.00
43632	Stock Feed		**9.65**	10.00	**3.48**	3.00	**10.88**	10.00
	Ansted & Burk Co., Springfield, Ohio.							
43387	Kiln Dried Corn & Oat Chop	Oakland	**11.06**	10.00	**3.73**	4.00	**4.62**	6.00
43388	Kiln Dried Feed Meal	Oakland	**10.97**	9.00	**4.46**	3.00	**1.73**	4.00
43389	Wheat Bran	Oakland	**15.01**	15.00	**4.60**	4.00	**9.62**	9.00
	Arcady Farms Milling Co., Chicago, Ill.							
43514	Atlantic Corn Feed Meal	Baltimore	**10.62**	8.50	**4.70**	3.00	**3.13**	8.00
43515	Bes Bet Laying Mash with Buttermilk	Baltimore	**19.74**	20.00	**5.55**	4.00	**6.35**	9.00
43416	Buttermilk Egg Mash	Baltimore	**22.82**	20.00	**4.33**	4.50	**9.52**	9.00
43516	Dairy Feed	Baltimore	**21.42**	16.00	**5.43**	3.50	**11.10**	13.50
43517	Riverdale Dairy Ration	Baltimore	**24.48**	24.00	**5.00**	5.00	**8.45**	10.00
43518	Riverside Scratch Feed	Baltimore	**10.62**	10.00	**3.65**	2.50	**2.40**	5.00
43519	Scratch Feed	Baltimore	**11.67**	10.00	**3.83**	2.50	**2.75**	5.00
43520	Wonder Mash with Buttermilk	Baltimore	**21.76**	20.00	**4.85**	4.50	**7.25**	8.00
	Archer*-Daniels Co., Buffalo, N. Y.							
43635	Old Process Ground Oil Cake		**34.66**	34.00	**7.75**	5.00	**8.00**	10.00
	Armour Fertilizer Works, Chicago, Ill.							
43769	Meat Meal		**62.22**	60.00	**9.10**	6.00	**2.70**	2.00
	Ashcraft-Wilkinson Co., Atlanta, Ga.							
43587	Paramount Brand Good Cotton Seed Meal	Baltimore	**37.12**	36.00	**6.93**	5.50	**13.37**	14.00
43291	Paramount Brand Cotton Seed Meal	Silver Spring	**35.98**	36.00	**6.87**	5.50	**14.70**	14.00
	Atkinson Milling Co., Minneapolis, Minn.							
43212	Wheat Bran with Screenings	Baltimore	**16.24**	13.00	**5.38**	4.00	**11.85**	12.00
43600	Wheat Standard Middlings, with Gr'd. Screenings		**18.21**	14.00	**6.50**	5.00	**7.75**	9.50
	Aunt Jemina Mills Co., St. Joseph, Mo.							
43676	Hominy Feed		**10.79**	10.00	**6.38**	5.00	**5.50**	8.00
	J. J. Badenoch Co., Chicago, Ill.							
43669	Baby Chick Starter, with Dried Buttermilk		**16.59**	14.00	**4.73**	5.00	**5.15**	6.00
43670	C-ER-Lay Scratch Feed. Gritless		**11.54**		**3.55**		**3.15**	
43671	Daily Egg Chick Feed. Gritless		**11.67**	9.50	**3.98**	2.50	**2.40**	5.00
43672	Sunflower Pigeon Feed		**17.25**	10.00	**3.43**	3.50	**5.20**	8.00

No.	Name of Manufacturer and Feeding Stuffs.	Place of Sampling.	Protein		Fat or Ether Extract		Crude Fiber	
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed
	Baugh & Sons Co., Baltimore, Md.							
43484	50% Digester Tankage	Baltimore	**48.45**	50.00	**9.15**	8.00	**4.15**	3.00
43485	60% Digester Tankage	Baltimore	**61.87**	60.00	**4.90**	8.00	**4.27**	3.00
43580	Meat Meal for Poultry	Baltimore	**50.81**	50.00	**12.58**	10.00	**2.40**	1.00
43486	Special Ground Bone for Poultry	Baltimore	**28.26**	27.00	**.60**	1.00	**1.87**	1.00
	Fred. Bauernschmidt Amer. Brewery, Balto., Md.							
43263	Dried Brewers' Grains	Baltimore	**27.73**	25.00	**5.97**	5.00	**15.10**	13.00
	Bay State Milling Co., Winona, Minn.							
43638	Coarse Wheat Bran		**15.80**	13.50	**5.90**	3.80	**10.83**	13.10
43637	Wheat Middlings & Wheat Screenings		**17.72**	16.00	**6.08**	3.90	**7.98**	8.80
	Bel Air Road Supply Co., Baltimore, Md.							
43487	Lay More Scratch Feed	Baltimore	**11.23**	10.00	**3.08**	3.00	**2.68**	4.00
	Berg Company, Philadelphia, Pa.							
43770	Digester Meat & Bone Tankage		**52.04**	50.00	**13.15**	11.00	**2.50**	5.00
43771	Digester Meat & Bone Tankage		**56.74**	60.00	**10.85**	10.00	**1.85**	5.00
43773	50% Protein Poultry Meat & Bone		**53.53**	50.00	**12.62**	11.00	**1.60**	2.00
43774	55% Protein Poultry Meat & Bone		**55.55**	55.00	**14.22**	11.00	**1.60**	2.00
43772	3 Medal Poultry Meat & Bone		**49.84**	45.00	**13.85**	11.00	**2.20**	3.00
	Bernhard Stern & Sons, Inc., Milwaukee, Wis.							
43636	Atlas Wheat Flour Middlings		**17.38**	16.00	**4.33**	3.50	**6.68**	6.00
	Blamberg Bros., Baltimore, Md.							
43213	Cornell Brand Spec. Beef Scraps for Poultry	Baltimore	**50.50**	55.00	**13.90**	13.00	**2.89**	3.00
43439	Cornell Brand Buttermilk Laying Mash	Baltimore	**25.67**	20.00	**5.61**	4.00	**9.30**	9.00
43438	Cornell Brand Dairy Feed	Baltimore	**21.32**	20.00	**5.72**	5.00	**7.57**	10.00
43440	Cornell Brand Scratch Feed	Baltimore	**10.62**	10.50	**3.63**	5.50	**3.03**	4.00
43417	Cornell Brand No. 3 Pigeon Feed	Baltimore	**17.38**	16.00	**4.23**	3.00	**4.45**	4.00
43237	H. W. R. Egg Mash	Baltimore	**33.13**	25.00	**3.05**	5.00	**10.38**	9.00

43237	H. W. R. Egg Mash	Baltimore	33.13	25.00	3.05	5.00	10.38	9.00

	Blamberg-Bixler Co., Balto. Feed & Seed Co.,	**Balto., Md.**							
43463	Buttermilk Laying Mash	Baltimore	20.71	20.00	4.52	4.00	10.75	9.00	
43521	Digester Tankage	Baltimore	55.02	50.00	11.45	4.00	4.69	3.00	
43522	Dry Mash	Baltimore	23.39	18.00	5.13	4.00	9.63	9.00	
43523	Hercules Scratch Feed	Baltimore	10.53	10.00	3.10	3.00	2.60	5.00	
43441	Pigeon Feed	Baltimore	14.30	14.00	3.73	2.60	3.35	4.30	
43524	No. 3 Pigeon Feed	Baltimore	18.43	16.00	3.40	3.00	5.00	4.00	
43501	Scratch Feed	Baltimore	11.23	10.50	2.85	.50	2.25	4.00	
43525	Victory Brand Scratch Feed	Baltimore	10.97	10.00	2.85	3.00	2.30	5.00	
	Blank & Gottshall Co., Sunbury, Pa.								
43628	B. & G. Baby Chick Feed		14.83	14.00	3.73	4.00	3.50	4.00	
	Blatchford Calf Meal Co., Waukegan, Ill.								
43664	Bar-Nun Chick Feed		11.41	9.00	3.75	1.50	2.03	5.00	
43665	Bar-Nun Developing Feed		10.62	9.00	2.43	1.50	2.15	5.00	
43666	Bar-Nun Scratch Grains		11.06	9.00	2.85	1.50	3.25	5.00	
43566	Blatchford's Calf Meal	Baltimore	26.02	24.00	2.40	5.00	6.33	6.75	
43678	Chick Mash		20.80	20.00	4.20	4.00	5.33	7.50	
43679	Universal Scratch Grains		10.18	9.00	3.50	1.50	2.90	5.00	
	J. Bolgiano Seed Co., Baltimore, Md.								
43418	Lord Baltimore Horse Feed	Baltimore	8.69	7.00	2.58	2.00	8.85	14.00	
43214	Square Deal Baby Chick Feed	Baltimore	11.37	9.00	5.03	2.00	4.63	5.00	
43465	Square Deal Buttermilk Growing Mash	Baltimore	18.08	18.00	4.95	4.00	5.50	10.00	
43466	Square Deal Buttermilk Laying Mash	Baltimore	19.93	18.00	7.40	4.00	6.55	10.00	
43215	Square Deal Buttermilk Starting Food	Baltimore	15.05	12.50	5.35	4.00	4.97	4.50	
43444	Square Deal Cluck Developing Feed	Baltimore	10.53	9.00	2.40	2.00	2.80	5.00	
43570	Square Deal Ground Beef Scraps for Poultry	Baltimore	55.53	55.00	12.99	10.00	3.68	1.00	
43464	Square Deal Ground Beef Scraps for Poultry	Baltimore	52.96	55.00	20.35	10.00	3.00	1.00	
43238	Square Deal Scratch Feed	Baltimore	10.70	10.00	3.05	3.00	2.89	4.00	
	Bowman Bros., Gaithersburg, Md.								
43292	Wheat Bran	Derwood	13.78		3.15		9.25		
43293	Wheat Middlings	Gaithersburg	15.09		4.05		4.35		
	Boyer & Heard, Hagerstown, Md.								
43795	"Superior" Laying Mash		25.40		5.41		7.04		
	P. M. Brooks, Chestertown, Md.								
43804	Wheat Bran		14.48		4.10		8.65		
43805	Wheat Middlings		16.06		4.08		3.35		
	Buckeye Cotton Oil Co., Cincinnati, Ohio.								
43552	36% Protein Cottonseed Meal Good Quality		41.68	36.00	7.45	5.00	10.25	14.00	

No.	Name of Manufacturer and Feeding Stuffs.	Place of Sampling.	Protein		Fat or Ether Extract		Crude Fiber	
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed
	R. Calligan, Fullerton, Md.							
43481	Scratch Feed		**12.20**		**3.75**		**3.95**	
	Cannon Valley Milling Co., Minneapolis, Minn.							
43595	Pure Wheat Bran		**16.32**	14.50	**5.83**	4.00	**12.50**	12.00
43596	Wheat Flour Middlings, with Gr'd. Screenings		**18.30**	16.00	**5.53**	5.00	**5.63**	6.00
43597	Wheat Standard Middlings		**17.29**	15.50	**6.85**	4.00	**10.49**	9.50
	Cameron-Daniel Co., Dealers, Atlanta, Ga.							
43593	Choice Cotton Seed Meal	Woodbine	**42.74**	43.00	**8.80**	6.00	**7.85**	10.00
	Central Chemical Co., Hagerstown, Md.							
43603	Gro-All Hog & Poultry Tankage		**52.70**	50.00	**16.05**	10.00	**3.33**	6.00
	Centreville Milling Co., Centreville, Md.							
43801	Bran		**14.83**		**4.55**		**9.60**	
43802	Middlings		**16.58**		**3.65**		**4.55**	
	Chapin & Co., Chicago, Ill.							
43663	Ajax Dairy Ration		**22.46**	20.00	**5.23**	5.00	**6.83**	9.00
43419	Centaur Feed	Baltimore	**14.22**	12.00	**6.02**	4.00	**9.19**	8.00
43264	Unicorn Dairy Ration	Baltimore	**27.03**	24.00	**5.09**	5.00	**9.29**	10.00
	Chesapeake Plant & Animal Food Co., Balto., Md.							
43239	Bay Brand Fish Meal	Baltimore	**59.32**	57.00	**9.35**	6.00	**1.73**	1.00
43797	Bay Brand Fish Meal	Baltimore	**57.65**	57.00	**9.42**	6.00	**1.59**	1.00
	Chewsville Flour Mills, Chewsville, Md.							
43339	Wheat Bran	Chewsville	**16.76**		**4.74**		**5.18**	
43340	Wheat Middlings	Chewsville	**19.27**		**5.92**		**5.91**	
	Clover Leaf Milling Co., Buffalo, N. Y.							
43609	Dairy Feed		**16.85**	16.00	**4.17**	4.00	**13.15**	14.00
43610	Egg Mash		**20.88**	18.00	**3.60**	4.00	**7.10**	11.00
43611	Old Colony Feed		**22.90**	20.00	**4.50**	3.50	**9.37**	12.00
43711	Peerless Milk Ration		**16.94**	20.00	**4.83**	4.50	**11.33**	13.00

43611	Old Colony Feed								

43711	Peerless Milk Ration		16.94	20.00	4.83	4.50	11.33	12.00		
	H. J. Clusman, Baltimore, Md.									
43467	Special Molasses Horse Feed	Baltimore	9.30		3.35		7.50			
	Collis Products Co., Clinton, Iowa.									
43276	Pure Dried Buttermilk	Frederick	33.70	30.00	6.10	5.50				
	Colton Bros. Co., Bellefontaine, Ohio.									
43445	Flaked Corn & Oats	Baltimore	10.44	10.00	3.66	4.00	3.70	5.00		
	Commander Mill Co., Minneapolis, Minn.									
43606	Wheat Bran, with Gr'd. Screenings		14.39	14.50	5.35	5.00	12.28	11.50		
43607	Wheat Flour Midds., with Gr'd. Screenings		17.02	16.50	5.30	4.50	6.65	6.00		
43216	Wheat Middlings	Baltimore	17.03	15.00	5.65	5.00	10.87	9.00		
	Commercial Milling Co., Detroit, Mich.									
43668	Standard Wheat Middlings, with Gr'd. Screenings		18.52	13.50	4.90	4.50	8.10	9.50		
	G. E. Conkey Co., Cleveland, Ohio.									
43648	Buttermilk Growing Mash		18.95	18.00	5.77	4.00	5.07	5.00		
43341	Buttermilk Laying Mash	Hagerstown	19.13	18.00	6.78	4.00	5.40	6.00		
43649	Buttermilk Starting Feed		14.39	12.00	5.16	3.00	3.67	4.00		
43618	Growing Grains		11.85	10.50	3.15	2.50	2.20	3.00		
43619	Pigeon Feed		14.22	10.00	2.60	2.50	3.00	5.00		
43342	Scratch Grains	Hagerstown	10.71	9.75	1.42	1.75	2.50	3.00		
	Consolidated Dressed Beef Co., Philadelphia, Pa.									
43768	Beef & Scrap Bone		45.19	45.00	16.70	12.00	1.45	2.00		
43767	Digester Tankage		36.20	40.00	14.80	12.00	5.90	3.00		
	Corn Products Refining Co., New York, N. Y.									
43241	Buffalo Corn Gluten Feed	Baltimore	30.23	23.00	2.80	1.00	8.40	8.50		
43604	Diamond Corn Gluten Meal		46.34	40.00	1.85	1.00	1.15	4.00		
43605	Diamond Hog Meal		25.36	18.00	6.73	7.00	9.08	13.00		
	Corno Mills Co., East St. Louis, Ill.									
43390	Stock Feed	Grantsville	9.09	9.00	3.91	5.00	11.81	12.50		
	J. H. Cottman & Co., Baltimore, Md.									
43526	Diamond "C" Feeding Tankage	Baltimore	55.03	50.00	12.18	5.00	2.38	5.00		
	Cumberland Milling Co., Cumberland, Md.									
43391	Coarse Corn & Oats	Cumberland	11.72		5.23		3.50			
43392	Fine Corn & Oats	Cumberland	11.67		5.38		4.86			
43545	Wheat Bran	Cumberland	15.36		6.08		11.21			
43546	Wheat Middlings	Cumberland	15.71		4.10		5.01			
43576	Wheat Shorts		16.55		4.60		7.44			
	S. P. Davis, Little Rock, Ark.									
43677	Steerboy Brand Cottonseed Meal		45.63	43.00	7.38	6.00	10.15	10.00		

No.	Name of Manufacturer and Feeding Stuffs.	Place of Sampling.	Protein		Fat or Ether Extract		Crude Fiber	
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed
	Deal Bros. Milling Co., Cumberland, Md.							
43393	Jersey Stock Feed	Cumberland	**8.78**	10.00	**2.48**	9.00	**12.57**	4.00
43394	Scratch Feed	Cumberland	**11.23**	10.00	**4.57**	2.50	**3.79**	8.00
	Denver Alfalfa Milling & Products Co., Lamar, Col.							
43337	Alfalfa Meal	Denton	**14.65**	12.00	**3.78**	1.00	**32.23**	35.00
	D. W. Dietrick & Co., Philadelphia, Pa.							
43375	Hard Wheat Middlings	Frederick	**18.78**		**5.27**		**9.37**	
43295	Wheat Bran	Boyd	**17.38**	14.00	**4.92**	4.00	**10.60**	11.00
	Albert Dickinson Co., Chicago, Ill.							
43613	Globe Chick Mash, with Dried Buttermilk		**18.87**	18.00	**5.05**	4.00	**7.10**	8.00
43614	Globe Egg Mash		**20.71**	20.00	**5.00**	5.00	**7.27**	10.00
43527	Globe Egg Mash	Baltimore	**18.39**	20.00	**3.23**	5.00	**9.10**	10.00
43615	Globe Scratch Feed		**10.97**	10.00	**2.80**	2.50	**2.90**	5.00
43616	Pine Tree Scratch Feed		**11.06**	10.00	**2.95**	2.50	**4.77**	5.00
43528	Rival Hog Feed	Baltimore	**18.08**	12.50	**3.38**	3.00	**8.30**	12.50
	Diefenbach-Prina Milling Co., St. Paul, Minn.							
43612	Radio Pure Wheat Bran		**16.15**	14.00	**5.87**	4.00	**10.87**	12.00
	T. M. Dinsmore & Co., Baltimore, Md.							
43370	Special Mixture Horse Feed	Baltimore	**11.67**		**2.50**		**8.70**	
	Duluth-Superior Milling Co., Duluth, Minn.							
43674	Diamond "S" Middlings		**17.46**	17.50	**5.68**	5.00	**7.05**	8.75
43673	Duluth Imperial Bran		**15.71**	15.50	**5.53**	4.50	**8.90**	11.75
43675	Red Dog		**16.59**	17.00	**3.63**	3.75	**2.25**	3.75
	Dumont Fertilizer Co., Baltimore, Md.							
43792	Meat Meal 50%	Baltimore	**30.65**	50.00	**8.08**	10.00	**2.80**	2.00
43793	Pure Animal Tankage	Baltimore	**32.05**		**9.05**		**2.58**	

	Dunkerly Bros., Baltimore, Md.								
43435	Big "D" Grain Dairy Feed	Baltimore	**26.68**	20.00	**3.90**	3.00	**7.05**		
43436	Big "D" Grain Egg Mash	Baltimore	**24.13**	20.00	**6.90**	4.00	**8.80**	6.00	
43437	Big "D" Grain Scratch Feed	Baltimore	**12.02**	10.50	**3.25**	3.00	**3.90**	4.00	
	Eagle Roller Mill Co., New Ulm, Minn.								
43621	Wheat Bran Gr'd. Screenings		**16.54**	14.00	**5.75**	3.40	**9.55**	12.00	
43620	Wheat Flour Midds., containing Gr'd. Screenings		**17.90**	16.00	**5.60**	5.00	**4.63**	6.00	
43622	Wheat Stand. Midds., containing Gr'd. Screenings		**16.15**	15.00	**5.48**	4.00	**7.48**	9.50	
	Early & Daniel Co., Cincinnati, Ohio.								
43468	Ce-re-a-lia Sweets for Dairy	Baltimore	**22.73**	20.00	**5.30**	4.50	**7.45**	10.00	
43217	Tuxedo Chop	Baltimore	**9.83**	10.00	**4.40**	3.00	**8.28**	12.00	
	Eastern Cotton Oil Co., Norfolk, Va.								
43496	Peanut Meal	Fallston	**44.75**	43.00	**7.15**	6.00	**7.15**	8.00	
43277	Peanut Meal	Frederick	**47.65**	45.00	**6.90**	7.00	**5.90**	6.00	
43641	Perfection Cottonseed Meal		**40.89**	41.00	**5.93**	5.50	**11.65**	10.00	
43265	Supreme Cottonseed Meal	Baltimore	**39.75**	36.00	**8.07**	5.00	**12.15**	14.00	
	B. A. Eckhart Milling Co., Chicago, Ill.								
43639	Rye Midd., with recleaned gr'd. Rye Screenings		**15.97**	14.50	**3.53**	3.00	**5.58**	7.00	
43395	Wheat Bran	Grantsville	**16.32**	14.00	**4.72**	4.00	**8.75**	11.00	
43642	Wheat Flour Middlings		**16.23**	15.00	**4.68**	4.00	**4.50**	7.00	
43643	Wheat Midd., with gr'd. recleaned Wheat Screen.		**17.02**	15.00	**5.08**	4.00	**6.92**	7.00	
	Economy Poultry Supply Co., Harrison, N. J.								
43371	Meat & Bone Scrap	Middletown	**46.34**	50.00	**12.50**	10.00	**2.48**		
	Empire Milling Co., Minneapolis, Minn.								
43420	Pure Wheat Bran	Baltimore	**16.41**	14.50	**5.25**	5.00	**10.65**	10.90	
	John W. Eshelman & Sons, Lancaster, Pa.								
43644	Calf Meal		**23.83**	16.00	**4.70**	3.00	**4.20**	3.00	
43645	Chick Feed		**12.46**	10.00	**5.35**	3.00	**1.97**	3.00	
43376	Dairy Feed 16½%	Frederick	**17.81**	16.50	**3.20**	3.50	**12.00**	10.00	
43327	Dairy Feed 15%	Goldsboro	**14.22**	15.00	**3.45**	3.00	**8.25**	10.00	
43503	Dairy Feed 25%	Baltimore	**22.34**	25.00	**4.90**	5.00	**8.94**	12.00	
43299	Dairy Feed 24%	Hampstead	**24.22**	24.00	**4.05**	5.00	**10.05**	12.00	
43469	Dairy Feed 20%	Baltimore	**20.18**	20.00	**3.45**	4.00	**11.55**	12.00	
43296	Growing Mash	Hampstead	**19.40**	16.00	**5.12**	4.00	**6.70**	8.00	
43646	Hog Meal		**17.55**	16.00	**6.08**	5.00	**6.80**	6.00	
43720	Horse Feed 60		**10.35**	9.00	**5.65**	2.50	**9.35**	12.00	
43502	Horse Feed 85	Baltimore	**9.13**	9.00	**3.00**	3.00			
43297	Imperial Scratch Feed	Hampstead	**10.71**	9.00	**2.62**	3.00	**2.33**	4.00	

No.	Name of Manufacturer and Feeding Stuffs.	Place of Sampling.	Protein		Fat or Ether Extract		Crude Fiber	
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed
	John W. Eshelman & Sons, Lancaster, Pa. (Con't.)							
43298	Laying Mash	Hampstead	**25.01**	20.00	**5.63**	5.00	**5.73**	7.00
43777	Meat & Bone Scrap		**52.48**	50.00	**14.20**	10.00	**1.88**	2.00
43647	Pennsy Scratch Feed		**10.27**	9.00	**2.95**	3.00	**2.50**	4.00
43266	Scratch Feed	Baltimore	**11.93**	10.00	**2.09**	3.00	**3.40**	4.00
43470	Scratch Feed	Baltimore	**10.53**	10.00	**3.30**	3.00	**4.03**	4.99
43364	Wheat Middlings	Fallston	**16.32**	16.00	**4.00**	4.00	**6.20**	9.00
	Clarence A. Euler & Co., Baltimore, Md.							
43294	Dried Grains	Silver Spring	**22.95**	24.00	**7.80**	8.00	**16.17**	17.00
	Everett Aughenbaugh, Waseco, Minn.							
43377	Pure Wheat Bran	Frederick	**17.55**	14.50	**5.32**	4.00	**8.40**	11.00
	Farmers Milling & Grain Co., Mt. Airy, Md.							
43594	Bran	Woodbine	**16.94**	14.50	**5.12**		**8.87**	
43650	Wheat Middlings		**16.23**	15.00	**4.50**	4.00	**4.25**	6.00
	Federal Milling & Refrigerating Co., Hagerstown, Md.							
43343	Eureka Chick Feed	Hagerstown	**10.62**	9.00	**3.16**	2.50	**2.15**	5.00
43344	Eureka Scratch Feed	Hagerstown	**10.00**	10.00	**3.01**	2.50	**2.05**	5.00
43345	Federal Corn, Oats & Barley	Hagerstown	**10.79**	10.00	**2.82**	5.00	**13.07**	9.00
43346	Federal Grow Big Hog Rations	Hagerstown	**13.95**	14.00	**3.57**	5.00	**4.86**	7.50
43347	Federal Make-Em-Grow Mash	Hagerstown	**15.80**	15.00	**4.44**	4.00	**4.71**	5.00
43348	Federal Make-Em-Lay Mash	Hagerstown	**19.30**	20.00	**4.75**	5.00	**7.55**	8.00
43349	Matchless Dairy Feed	Hagerstown	**16.15**	18.50	**4.75**	4.50	**10.17**	8.50
43350	Wheat Bran	Hagerstown	**14.30**		**4.19**		**9.92**	
43351	Wheat Middlings	Hagerstown	**17.34**		**4.14**		**5.47**	
	Frederick Co. Farmers Exchange, Frederick, Md.							
43278	Gambrill's A1 Dairy Ration	Frederick	**23.00**	20.00	**4.87**	4.00	**10.48**	11.00
43300	Gambrill's Buttermilk Laying Mash	Sykesville	**21.50**	18.00	**4.60**	3.50	**5.03**	8.00

43279	Gambrill's Chick Feed	Frederick	**12.29**	10.00	**7.24**	3.00	**2.50**	5.00
43280	Gambrill's Dairy Feed	Frederick	**17.02**	16.00	**4.06**	5.00	**11.83**	14.00
43281	Gambrill's Horse Feed	Frederick	**10.05**	12.50	**2.71**	4.50	**11.60**	12.00
43282	Scratch Feed	Frederick	**10.97**	10.00	**3.55**	3.00	**3.88**	3.00
43283	Special Dairy Feed	Frederick	**12.81**	10.00	**2.28**	2.50	**9.50**	17.00
	Galesburg Molasses Feed Co., Galesburg, Ill.							
43717	Dependable Dairy Feed		**15.18**	19.00	**2.75**	3.00	**9.32**	12.00
43446	Dependable Feed	Baltimore	**10.49**	13.50	**4.77**	3.75	**6.79**	11.50
43421	Dependable Horse Feed Quality Feed	Baltimore	**11.32**	13.00	**3.23**	3.00	**7.00**	11.00
43680	Dependable Scratch Feed		**10.53**	10.00	**3.80**	4.00	**2.78**	3.00
43447	Dimple Horse Feed	Baltimore	**10.79**	9.00	**2.72**	2.50	**10.92**	11.00
43488	Double X Horse Feed	Baltimore	**10.88**	10.00	**3.65**	4.50	**4.63**	6.00
43681	Gamo Baby Chick Feed		**11.23**	10.50	**3.98**	2.75	**3.13**	4.50
43718	Gamo Dairy Feed		**23.25**	24.00	**4.40**	3.50	**9.70**	10.00
43719	Gamo Lasses Feed		**10.09**	10.00	**1.10**	1.00	**16.05**	20.00
43617	Gamo Scratch Feed No. 1		**10.44**	10.50	**3.22**	3.50	**2.63**	3.00
43211	Ground Oats	Gambrills	**11.14**	11.00	**4.60**	4.00	**12.42**	12.00
	C. A. Gambrill Mfg. Co., Baltimore, Md.							
43251	Patapsco Bran	Baltimore	**14.92**	14.50	**5.22**	4.00	**11.23**	9.50
43640	Patapsco White Middlings		**17.90**	16.50	**4.48**	5.00	**4.53**	3.25
	Gambrill Grain Products Co., Baltimore, Md.							
43448	A1 Dairy Ration	Baltimore	**24.92**	25.00	**5.05**	6.00	**8.23**	9.00
43369	Alice Anna Dairy Feed	Baltimore	**16.50**	16.50	**3.85**	4.00	**8.82**	14.00
43449	Alice Anna Scratch Feed	Baltimore	**9.62**	9.00	**3.33**	2.00	**2.83**	6.00
43252	AA Canton Stock Feed	Baltimore	**7.64**	10.00	**3.86**	2.50	**8.31**	20.00
43579	Canton Stock Feed	Baltimore	**10.36**	7.00	**2.83**	2.00	**9.15**	12.10
43550	Elevator By-products		**16.67**		**3.63**		**13.48**	
43301	Gambrill's Alice Horse Feed	Sykesville	**9.70**	10.00	**2.93**	3.00	**9.77**	17.00
43422	Honey Boy Sweet Feed	Baltimore	**8.78**	9.00	**1.70**	2.00	**13.80**	20.00
	Glade Valley Milling Co., Walkersville, Md.							
43556	Elevator Screenings	Walkersville	**16.54**		**3.50**		**3.73**	
43557	Wheat Bran	Walkersville	**16.76**		**4.63**		**10.68**	
43558	Wheat Middlings	Frederick	**17.72**		**4.48**		**4.48**	
	William O. Goodrich Co., Milwaukee, Wis.							
43302	Old Process Linseed Meal	Hampstead	**37.73**	34.00	**6.65**	5.00	**7.88**	10.00
	Grain Belt Mills Co., S. St. Joseph, Mo.							
43242	Horse & Mule Feed	Baltimore	**9.83**	9.00	**2.60**	2.00	**9.80**	14.00
43504	Liberty Scratch Feed	Baltimore	**10.00**	10.00	**2.95**	2.50	**2.15**	5.00

No.	Name of Manufacturer and Feeding Stuffs.	Place of Sampling.	Protein		Fat or Ether Extract		Crude Fiber	
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed
	Vernon M. Green & Co., Washington, D. C.							
43274	Capitol City Brand Cottonseed Feed	Baltimore	**36.18**	36.00	**5.70**	4.00	**12.69**	12.00
	Hales & Hunter Co., Chicago, Ill.							
43539	Horse Feed King falfa	Laurel	**10.18**	10.00	**3.00**	2.00		
43243	Morning Glory Scratch Feed	Baltimore	**11.23**	10.00	**2.80**	2.50	**2.80**	5.00
43244	Pound Squab Pigeon Feed	Baltimore	**13.34**	10.00	**2.85**	2.50	**4.00**	5.00
43303	Red Comb Egg Mash, with Buttermilk	Silver Spring	**21.24**	20.00	**4.50**	4.00	**5.45**	9.00
43245	Red Comb Growing Mash	Baltimore	**18.08**	18.00	**5.03**	4.00	**4.85**	5.00
43246	Red Comb Scratch Feed	Baltimore	**12.46**	10.00	**3.25**	2.50	**3.67**	5.00
	Dwight Hamlin, Inc., Pittsburgh, Pa.							
43423	Century Horse Feed	Baltimore	**9.32**	6.00	**1.88**	2.00	**10.58**	10.00
43721	Quality Feed		**9.13**	9.00	**1.68**	1.50	**11.15**	12.00
	Hecker, Jones-Jewell Milling Co., Buffalo, N. Y.							
43240	Red Dog Flour	Baltimore	**19.84**	15.50	**4.70**	3.75	**2.62**	5.00
	S. W. Hershey Flour Mills, York, Pa.							
43653	Wheat Bran		**16.15**	16.00	**5.65**	4.00	**12.15**	11.00
43654	Wheat Middlings		**15.99**	16.00	**5.67**	4.50	**5.95**	9.00
	Hickerson Bros., Rockville, Md.							
43304	Wheat Bran	Rockville	**14.65**		**4.50**		**8.90**	
43305	Wheat Middlings	Rockville	**16.67**		**3.83**		**4.43**	
	Hirst & Begley Linseed Works, Chicago, Ill.							
43608	Old Process Pure Linseed Cake Meal		**35.28**	34.00	**6.87**	6.00	**8.70**	9.00
	H-O Cereal Co., Inc., Buffalo, N. Y.							
43655	Keep-Fit Scratching Feed		**11.58**	11.00	**3.30**	3.50	**2.45**	6.00
43656	Laying Mash		**19.22**	17.00	**5.62**	4.50	**5.32**	6.00
43657	Steamed Cooked Chick Feed		**12.99**	12.00	**3.42**	3.00	**1.52**	4.00
43658	Steamed Cooked Growing Mash Feed		**14.35**	12.00	**5.40**	3.50	**4.72**	6.00

43657	Steamed Cooked Chick Feed		14.35	12.00	5.40	3.50	4.72	6.00	
43658	Steamed Cooked Growing Mash Feed								
	W. S. Hoge & Bro., Washington, D. C.								
43365	Best Dairy Feed	Fallston	27.91	25.00	5.05	5.00	9.55	10.00	
43306	Best Horse Feed	Silver Spring	9.83	7.00	2.95	1.00	7.05	10.00	
43722	Columbia Dairy Feed		21.59	20.00	4.80	4.00	9.60	12.00	
43366	Milk Maker Dairy Ration	Fallston	19.22	16.00	4.45	3.50	7.00	10.00	
	Humphreys-Godwin Co., North Wales, Pa.								
43207	Dixie Brand Cottonseed Meal	Hampstead	41.07	41.00	8.48	5.00	11.07	10.00	
	Ideal Rendering Co., North Wales, Pa.								
43776	Ideal Meat Scraps		49.58	50.00	15.30	14.00	1.20	2.00	
	Illinois Feed & Elevator Co., Bloomington, Ill.								
43367	Homestead Dairy Feed	Bel Air	23.08	22.00	4.89	5.00	10.90	10.00	
	Ingleside Milling Co., Ingleside, Md.								
43806	Bran		14.30		3.40		7.43		
43807	Middlings		15.09		3.90		3.88		
	Innis Speeden & Co., New York, N. Y.								
43529	Eg-o Milk Albumin	Baltimore	50.81	50.00	1.00	1.50			
	International Glue Co., East Boston, Mass.								
43682	Red Star Brand Fish Scrap		43.40	45.00	1.35	2.00	3.10	1.00	
	International Milling Co., New Prague, Minn.								
43307	Blackhawk Pure Wheat Bran	New Windsor	15.36	15.50	5.46	3.20	10.85	12.00	
43623	Blackhawk Wheat Flour Middlings		16.85	15.00	3.73	4.50	3.38	4.75	
43254	Blackhawk Wheat Middlings	Baltimore	17.46	16.50	5.50	4.50	8.77	8.50	
43624	Blackhawk Wheat Special Middlings		18.08	15.00	4.60	3.73	6.20	5.75	
	International Sugar Feed Co., Minneapolis, Minn.								
43489	Climax Dairy Feed	Baltimore	13.25	12.50	6.30	4.00	11.68	13.50	
43578	Climax Hog Feed	Laytonsville	17.33	15.00	7.70	4.50	9.08	11.00	
43659	Diamond Dairy Feed		24.92	24.00	5.80	5.00	9.57	10.00	
43660	Minnesota Dairy Feed		12.64	10.50	6.10	4.00	12.82	15.00	
43625	Poultry Feed Scratch Grains		11.67	10.00	3.13	2.50	2.95	5.00	
43626	Ready Ration Dairy		20.27	20.00	5.50	5.00	11.55	11.50	
43661	Special Dairy Feed		15.97	15.00	6.22	4.50	11.45	12.00	
43540	Special Dairy Feed	Laurel	15.97	15.00	5.28	4.50	12.45	12.00	
	International Sugar Feed No. 2 Co., Memphis, Tenn.								
43787	National Jewel Hen Feed		10.79	10.00	4.18	3.00	3.55	5.00	
43788	Old Trusty Horse & Mule Feed		11.06	10.00	2.30	3.00	13.80	14.00	
	Ismert Hincke Milling Co., Kansas City, Kansas.								
43541	Wheat, Bran & Screenings	Laurel	16.23	14.50	4.60	3.50	9.00	11.00	
	Jefferson Milling Co., Charles Town, W. Va.								
43542	Pure Wheat Middlings	Laurel	18.91	15.00	5.63	4.00	5.05	6.00	

No.	Name of Manufacturer and Feeding Stuffs.	Place of Sampling.	Protein		Fat or Ether Extract		Crude Fiber	
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed
	R. D. Johnson Milling Co., Cumberland, Md.							
43396	Atlas Scratch Feed	Cumberland	**10.53**	10.50	**3.19**	3.46	**2.12**	2.48
43397	Corn, Oats & Barley	Cumberland	**9.48**	9.51	**3.72**	4.15	**10.91**	10.27
	Kansas Flour Mills Co., Kansas City, Mo.							
43651	Gray Wheat Shorts & Wheat Screenings		**17.81**	16.00	**3.75**	3.50	**6.42**	6.50
43652	Wheat, Bran & Screenings		**16.94**	14.50	**4.41**	3.50	**8.72**	11.00
	Keedysville Milling Co., Keedysville, Md.							
43352	Wheat Bran	Keedysville	**16.67**		**4.35**		**8.90**	
43353	Wheat Middlings	Keedysville	**16.76**		**3.70**		**3.30**	
	Kelloggs & Miller, Amsterdam, N. Y.							
43267	Pure Oil Meal	Baltimore	**35.86**	30.00	**5.01**	4.00	**6.70**	6.00
	Kline Bros., Benevola, Md.							
43548	Wheat Bran, with Mill Run Screenings	Boonsboro	**15.54**		**4.90**		**8.35**	
43549	Wheat Middlings, with Mill Run Screenings	Boonsboro	**17.25**		**4.23**		**7.00**	
	Chas. F. Knock, Frederick, Md.							
43378	Buttermilk Poultry Mash	Frederick	**21.59**	20.00	**5.55**	5.00	**8.83**	7.00
43379	Chick Feed	Frederick	**11.41**	10.00	**3.98**	3.00	**3.53**	3.00
43380	Scratch Feed	Frederick	**10.79**	10.00	**4.10**	3.00	**3.23**	4.00
	Chas. A. Krause Milling Co., Milwaukee, Wis.							
43255	Badger Evergreen Feed	Baltimore	**12.29**	11.00	**.99**	.50	**17.67**	30.00
43450	Badger Kramco Dairy Ration	Baltimore	**21.67**	20.00	**5.05**	4.00	**10.23**	11.00
43362	Badger Stock Feed	La Plata	**10.71**	10.00	**3.27**	3.25	**10.38**	10.00
43424	Badger Sweet Dairy	Baltimore	**16.50**	16.50	**4.90**	3.50	**15.46**	14.00
43308	Bingo Dairy Feed	Germantown	**13.16**	12.00	**4.20**	3.00	**12.52**	15.00
43309	Blue Top Egg Mash	Hampstead	**21.59**	20.00	**4.85**	5.00	**7.27**	7.00
43268	Blue Top Scratch Feed	Baltimore	**11.41**	9.00	**2.75**	1.50	**3.02**	5.00
43310	Cream City Scratch Feed	Germantown	**11.32**	9.00	**2.93**	1.50	**3.30**	5.00

43451	Crescent Horse Feed	Baltimore	**10.44**	9.00	**2.23**	1.50	**11.95**	13.00
43311	Developing Feed	Hampstead	**11.93**	9.00	**2.60**	1.50	**2.65**	5.00
43425	Horse Feed	Baltimore	**10.79**	10.00	**2.77**	2.50	**8.40**	10.00
43312	Koo Koo Egg Mash	Hampstead	**20.88**	20.00	**5.20**	5.25	**6.25**	6.00
43452	Pep Horse Feed	Baltimore	**10.88**	10.00	**3.55**	3.00	**5.64**	10.00
43453	Pulmor Horse Feed	Baltimore	**10.09**	9.00	**2.75**	1.00	**10.45**	12.00
	Lake Erie Milling Co., Toledo, Ohio.							
43256	Mollet's Flaked Oats & Corn Chop	Baltimore	**11.67**	10.00	**4.32**	4.00	**4.04**	9.00
	Lancaster Mill & Elevator Co., Lancaster, Pa.							
43328	Conestoga Dairy Feed	Goldsboro	**17.64**	16.50	**4.19**	3.50	**8.17**	10.00
43471	Laying Mash	Baltimore	**23.08**	20.00	**6.30**	5.00	**6.28**	7.00
43269	Liberty Horse Feed	Baltimore	**9.92**	7.00	**2.57**	2.00	**6.68**	14.00
43329	Red Rose Horse Feed	Goldsboro	**10.00**	9.00	**3.86**	3.00	**6.29**	12.00
43472	Stock Feed	Baltimore	**10.97**	10.00	**4.30**	3.00	**11.20**	10.00
43473	Tally Ho Horse Feed	Baltimore	**6.63**	7.00	**2.10**	2.00		
	Larabee Flour Mills Corp., Kansas City, Mo.							
43702	Wheat Bran & Wheat Screen. not to exceed 8%		**17.68**	15.00	**4.23**	3.50	**10.02**	10.00
43703	Winter Wheat Gray Middlings		**19.92**	17.00	**4.85**	4.50	**4.98**	5.50
	Larrowe Milling Co., Detroit, Mich.							
43247	Hog Feed	Baltimore	**23.04**	18.00	**6.55**	5.00	**8.02**	10.00
43248	Larro for Dairy Cows	Baltimore	**23.30**	20.00	**3.95**	3.50	**11.80**	14.00
	Lawrenceburg Roller Mills Co., Lawrenceburg, Ind.							
43740	Golden Bull Bran & Ground Screenings		**18.17**	14.50	**4.47**	3.00	**9.20**	13.00
43743	Golden Bull Middlings & Ground Screenings		**17.81**	16.50	**4.42**	4.00	**7.40**	8.00
43742	Golden Bull Mixed Feed & Ground Screenings		**17.81**	16.00	**4.35**	3.50	**8.40**	10.50
43701	Red Dog Pure Wheat Product		**18.48**	15.00	**2.05**	2.50	**3.20**	4.00
43744	Sunflaked Bran & Ground Screenings		**16.06**	15.00	**4.47**	3.00	**9.22**	11.00
43745	Sunflaked Middlings & Ground Screenings		**17.90**	16.50	**4.92**	7.00	**5.17**	4.50
43741	Sunflaked Mixed Feed & Ground Screenings		**17.29**	16.00	**5.00**	3.50	**8.55**	9.00
	Liberty Yeast Corp., Baltimore, Md.							
43505	Dried Yeast Grains	Baltimore	**22.38**	18.50	**6.45**	2.50	**17.90**	20.00
	Lyle & Lyle, Huntsville, Ala.							
43398	Economy Cottonseed Feed	Hancock	**37.47**	36.00	**6.81**	5.00	**12.35**	17.00
	J. C. Lysle Milling Co., Leavenworth, Kansas.							
43313	Wheat Bran & Screenings	Silver Spring	**16.50**	15.00	**3.80**	4.00	**10.42**	10.00
	Walter F. MacNeal & Co., Baltimore, Md.							
43490	No. A Guilford Scratch Feed	Baltimore	**10.88**	10.00	**3.05**	3.00	**2.00**	4.00
43491	No. 2 Guilford Scratch	Baltimore	**11.93**	10.00	**3.30**	3.00	**2.60**	4.00

No.	Name of Manufacturer and Feeding Stuffs.	Place of Sampling.	Protein		Fat or Ether Extract		Crude Fiber	
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed
	McMillen Co., Fort Wayne, Ind.							
43662	Jumbo Stock Feed		**9.48**	9.00	**3.40**	3.50	**10.63**	12.00
	Malko Milling & Light Co., Hampstead, Md.							
43314	Wheat Bran	Hampstead	**16.76**		**4.70**		**9.30**	
43315	Wheat Middlings	Hampstead	**18.95**		**5.35**		**5.50**	
	Marianna Cotton Oil Co., Marianna, Ark.							
43475	Good Cottonseed Meal	Baltimore	**35.98**	36.00	**6.95**	5.00	**14.77**	14.00
	Marion National Mill Co., Marion, Ohio.							
43316	Wheat Bran & Screenings	Middleburg	**15.53**	13.34	**3.90**	3.30	**11.37**	10.10
	Matthews Howard Co., Inc., La Plata, Md.							
43551	Dairy Feed	La Plata	**16.41**		**4.18**		**10.20**	
	Mennel Milling Co., Toledo, Ohio.							
43705	Fancy Bran-Spring Wheat Feed-Harter		**17.03**	15.00	**5.45**	4.00	**10.82**	9.50
43704	Middlings Spring Wheat Feed, with Ground Screenings-Harter		**17.59**	15.00	**5.13**	4.00	**8.00**	6.50
43317	Middlings	Rockville	**16.41**	15.00	**4.15**	4.00	**6.95**	6.50
	Midland Linseed Products Co., Minneapolis, Minn.							
43399	Old Process Ground Linseed Meal Cake	Oakland	**33.26**	34.00	**5.95**	5.00	**9.67**	9.50
	C. L. Montgomery & Co., Memphis, Tenn.							
43400	Cottonseed Meal	Hancock	**36.33**	36.00	**6.67**	6.00	**11.25**	10.00
	Joel Moores & Co., Baltimore, Md.							
43270	Beef Cracklings for Poultry Food	Baltimore	**52.03**	50.00	**13.70**	12.00		
	Mutual Rendering Co., Philadelphia, Pa.							
43780	50% Meat & Bone Scraps		**54.19**	50.00	**10.70**	10.00	**2.85**	2.00
	National Feed Co., St. Louis, Mo.							
43506	Wheat Bran	Baltimore	**16.85**	14.50	**3.95**	4.00	**9.50**	10.00

	Newsome Feed & Grain Co., Pittsburgh, Pa.							
43257	Palmo Midds	Baltimore	**18.16**	16.00	**7.60**	7.00	**9.28**	9.00
	Norton & Co., Washington, D. C.							
43318	High Grade Meat Meal	Silver Spring	**47.82**	55.00	**18.10**	10.00	**3.25**	
	Northwestern Consolidated Milling Co., Minneapolis, Minn.							
43685	Planet Feed		**17.42**	15.00	**5.03**	4.00	**6.28**	8.00
43697	Pure Wheat Bran		**15.54**	13.00	**5.75**	4.00	**10.37**	13.00
43686	Wheat Flour Middlings		**17.51**	15.00	**5.93**	4.00	**6.40**	8.00
43687	Wheat Mixed Feed		**16.85**	15.00	**6.00**	4.00	**8.18**	8.50
43688	Wheat Standard Middlings		**16.59**	14.00	**6.55**	4.00	**9.13**	9.50
43271	XXX Comet	Baltimore	**17.90**	16.00	**5.32**	4.00	**2.62**	4.00
	W. C. Northern, Shipper, Memphis, Tenn.							
43586	Standard Brand Cottonseed Feed	Baltimore	**35.98**	36.00	**6.67**	5.00	**14.62**	12.00
	Nowak Milling Corp., Buffalo, N. Y.							
43683	Domino Chick Feed		**12.55**	11.00	**2.98**	2.00	**1.83**	5.00
43684	Marathon Scratch Feed		**10.79**	10.00	**3.80**	3.00	**3.18**	5.00
	Nuttle Milling Co., Denton, Md.							
43331	Ideal Growing Mash	Denton	**18.16**	16.00	**4.78**	4.50	**5.20**	5.00
43332	Ideal Laying Mash	Denton	**19.83**	20.00	**4.08**	5.00	**7.30**	7.00
43333	Ideal Scratch Feed	Denton	**10.79**	10.00	**3.03**	4.00	**2.35**	4.50
	Geo. F. Obrecht, Baltimore, Md.							
43574	Wonder Laying Mash		**15.45**		**4.19**		**12.71**	
43575	Wonder Scratch Feed		**11.81**		**3.01**		**3.00**	
	P. F. Obrecht & Son, Baltimore, Md.							
43259	Poultry Mash	Baltimore	**28.22**	20.00	**4.95**	3.00	**12.55**	10.00
43476	Scratch Feed	Baltimore	**11.76**	10.00	**2.22**	3.00	**3.12**	4.00
	Omaha Alfalfa Milling Co., Omaha, Neb.							
43219	Alfa Meal	Baltimore	**13.73**	12.00	**2.37**	1.00	**38.39**	35.00
43220	Alfalfa Syr	Baltimore	**12.23**	10.00	**1.80**	.50	**20.45**	25.00
43507	Perfection Horse Feed	Baltimore	**10.79**	10.00	**2.90**	2.00	**7.35**	12.00
43221	Special Horse & Mule Feed	Baltimore	**9.52**	10.00	**2.90**	1.50	**11.70**	18.00
	Park & Pollard Co., Buffalo, N. Y.							
43747	Growing Feed		**15.49**	10.00	**4.55**	.50	**5.65**	8.00
43426	Lay or Bust Dry Mash	Baltimore	**20.09**	18.00	**5.57**	4.50	**6.92**	12.00
43427	Red Ribbon Scratch Feed	Baltimore	**11.58**	10.00	**3.12**	1.50	**2.65**	5.00
43401	Stevens 44 Dairy Ration	Hancock	**24.83**	24.00	**6.22**	5.00	**9.69**	14.00
	Penick & Ford Inc., Chicago, Ill.							
43746	Douglas Corn Gluten Feed		**30.85**	23.00	**2.95**	1.00	**7.50**	8.00

No.	Name of Manufacturer and Feeding Stuffs.	Place of Sampling.	Protein		Fat or Ether Extract		Crude Fiber	
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed
	M. C. Peters Mill Co., Omaha, Neb.							
43411	Arab Horse Feed	Baltimore	**10.71**	10.00	**2.45**	2.00	**9.00**	15.00
43412	King Corn Horse & Mule Feed	Baltimore	**11.76**	10.00	**2.00**	1.50	**12.02**	18.00
43413	Rabbit Mule Feed	Baltimore	**11.76**	10.00	**1.05**	1.50	**16.07**	18.00
43402	Red Feather Laying Mash	Cumberland	**23.87**	20.00	**6.05**	4.00	**4.11**	8.00
	Pillsbury Flour Mills Co., Minneapolis, Minn.							
43689	Dairy Ration		**19.57**	20.00	**5.55**	4.00	**9.87**	11.00
43694	Durum Wheat Bran, with Gr'd. Cleaned Wheat Screenings		**14.13**	13.00	**6.05**	4.00	**12.47**	14.00
43690	Durum Wheat Standard "B" Middlings, with Gr'd. Cleaned Wheat Screenings		**14.92**	15.00	**6.42**	4.00	**11.15**	11.00
43691	Fancy Mixed Feed, with Gr'd. Cleaned Wheat Screenings		**17.02**	15.00	**5.10**	4.00	**6.55**	8.50
43692	Rye Middlings, with Cleaned Rye Screenings		**16.41**	15.00	**3.62**	3.50	**6.07**	9.00
43693	Wheat "A" Middlings, with Gr'd. Cleaned Wheat Screenings		**17.99**	16.00	**4.47**	4.00	**5.35**	6.00
43222	Wheat Bran	Baltimore	**15.40**	14.00	**5.16**	4.00	**12.61**	12.00
43223	Wheat Middlings, Ground Screenings	Baltimore	**15.19**	15.00	**5.82**	4.00	**9.96**	9.50
43260	XX Daisy	Baltimore	**19.51**	16.00	**4.12**	4.00	**3.55**	4.00
	Powell Milling Co., De Pere, Wis.							
43454	Second Clear	Baltimore	**18.56**	13.00	**3.48**	3.90	**2.30**	3.20
	Prairie State Milling Co., Chicago, Ill.							
43428	Economic Horse Feed	Baltimore	**7.46**	7.00	**1.60**	.50	**13.32**	15.00
43455	Early Egg Laying Mash, Dried Buttermilk & Fish Meal	Baltimore	**17.38**	18.00	**4.93**	4.00	**5.65**	7.00
43456	Emerald Horse Feed	Baltimore	**11.32**	9.00	**2.38**	2.00	**10.10**	15.00

	Pratt Food Co., Philadelphia, Pa.								
43760	Buttermilk, Grain, Bone, Baby Chick Food		**16.98**	11.50	**5.15**	3.50	**2.27**	2.80	
43761	Pigeon Feed		**15.14**	10.00	**3.35**	2.50	**3.85**	5.00	
43429	Scratch Feed, Large Size	Baltimore	**10.53**	10.00	**3.52**	2.50	**2.85**	5.00	
43764	Supreme Chick Size Scratch Feed		**12.11**	10.00	**1.95**	2.50	**1.57**	5.00	
43763	Supreme Growing Mash, with Buttermilk		**19.96**	17.50	**5.85**	4.50	**4.69**	9.00	
43762	Supreme Intermediate Scratch Feed		**11.14**	10.00	**3.27**	2.50	**1.85**	5.00	
43765	Supreme Scratch Feed, Large Size		**11.76**	10.00	**3.65**	2.50	**3.00**	5.00	
43766	Victory Chick Size Scratch Feed		**12.02**	10.00	**3.10**	2.50	**1.10**	5.00	
43457	Victory Laying Mash	Baltimore	**19.13**	17.00	**5.05**	4.00	**5.63**	9.00	
	Purity Oat Co., Keokuk, Iowa.								
43261	Oat Feed	Baltimore	**7.37**	5.00	**1.23**	1.50	**30.15**	30.00	
	Quaker City Flour Mills Co., Philadelphia, Pa.								
43695	Winter Wheat Bran		**15.22**	13.00	**4.52**	3.00	**9.00**	10.50	
43696	Winter Wheat Middlings		**17.25**	14.00	**5.20**	4.00	**4.67**	5.50	
	Quaker Oats Co., Chicago, Ill.								
43334	Buckeye Feed	Fruitland	**16.32**	15.50	**5.20**	4.50	**8.42**	11.00	
43723	Dairy Feed		**21.55**	16.00	**5.50**	4.50	**12.25**	16.00	
43750	Early Bird Scratch Grains, No Grit		**10.09**	9.00	**2.35**	2.00	**1.82**	5.00	
43430	Ful-O-Pep Coarse Chick Feed	Baltimore	**10.97**	10.00	**3.71**	2.00	**2.20**	5.00	
43319	Ful-O-Pep Dry Mash	Alesia	**21.94**	20.00	**5.03**	4.00	**7.80**	10.00	
43749	Ful-O-Pep Growing Mash		**20.84**	17.00	**5.52**	5.25	**5.03**	9.00	
43431	Ful-O-Pep Scratch Grains	Baltimore	**10.62**	9.00	**1.82**	2.00	**1.87**	5.00	
43272	Schumacher F. S. Feed	Baltimore	**12.20**	10.00	**3.07**	3.25	**13.25**	12.00	
43335	Schumacher Little Chick Feed	Goldsboro	**10.79**	9.00	**1.78**	2.00	**1.12**	3.00	
43403	Schumacher Scratch Grains	Cumberland	**10.27**	9.00	**2.70**	2.00	**2.10**	5.00	
43478	Schumacher Stock Feed	Baltimore	**12.29**	10.00	**4.35**	3.25	**11.25**	12.00	
43336	Sugared Schumacher Feed	Fruitland	**11.32**	10.00	**4.46**	3.25	**11.60**	12.00	
	Quisenbury Feed Mfg. Co., Kansas City, Mo.								
43752	Quality Buttermilk Growing Mash		**17.90**	20.50	**4.60**	4.00	**5.62**	6.00	
43753	Quality Buttermilk Laying Mash		**20.53**	18.00	**4.45**	3.50	**6.43**	5.00	
43754	Quality Buttermilk Starting Food		**16.46**	21.00	**4.77**	4.50	**3.62**	6.00	
43706	Quality Husky Chick Scratch Grains		**11.85**	10.00	**2.75**	3.50	**2.03**	3.00	
43751	Quality Husky Chick Scratch Grains No. 2		**10.53**	10.00	**2.70**	3.50	**1.32**	5.00	
	Ralston Purina Co., St. Louis, Mo.								
43224	Baby Chick Chow	Baltimore	**10.66**	10.00	**2.60**	2.50	**2.88**	4.00	
43458	Chicken Chowder	Baltimore	**21.32**	19.00	**5.15**	4.00	**7.75**	10.00	
43225	Chicken Fatena	Baltimore	**14.17**	12.00	**7.55**	8.00	**11.08**	9.00	

No.	Name of Manufacturer and Feeding Stuffs.	Place of Sampling.	Protein		Fat or Ether Extract		Crude Fiber	
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed
	Ralston Purina Co., St. Louis, Mo. (Con't.)							
43227	O-Molene Feed	Baltimore	**10.18**	8.70	**3.70**	3.20	**6.08**	8.00
43320	Protena Dairy Feed	Maple Grove	**19.26**	16.50	**3.95**	3.50	**12.85**	12.00
43381	Purina Calf Chow Feed	Frederick	**25.89**	27.00	**3.73**	3.20	**3.65**	4.50
43382	Purina Chicken Chow Feed	Frederick	**21.67**	19.00	**5.35**	4.00	**8.45**	10.00
43290	Purina Cow Chow Feed	Frederick	**23.96**	24.00	**5.93**	4.30	**9.67**	12.00
43383	Purina Pig Chow	Frederick	**22.90**	20.00	**4.45**	3.20	**7.48**	8.00
	Red Wing Milling Co., Red Wing, Minn.							
43228	Wheat Bran	Baltimore	**15.00**	13.50	**5.10**	4.10	**18.00**	15.60
43234	Wheat Flour Middlings	Baltimore	**18.03**	16.50	**5.30**	4.00	**6.93**	6.00
	A. F. Rees, Hanover, Pa.							
43368	Pure High Protein Tankage	Parkton	**40.15**	40.25	**21.92**	17.25	**3.75**	1.72
	Daniel Rider, Baltimore, Md.							
43477	Winner Dairy Feed	Baltimore	**25.27**	25.00	**6.40**	5.00	**10.22**	12.00
43229	Winner Horse Feed	Baltimore	**9.96**	9.00	**3.55**	2.00	**6.73**	14.00
	G. C. Rieck, Preston, Md.							
43434	Supreme Laying Mash	Preston	**20.18**	20.00	**5.05**	5.00	**5.10**	8.00
	Rogers Grain Products Co., Belvidere, Ill.							
43459	C. & O. Chop	Baltimore	**11.06**	11.00	**3.17**	4.00	**4.14**	10.00
	Rosenbaum Bros., Chicago, Ill.							
43712	Advance Dairy Feed		**17.99**	16.00	**4.18**	3.50		
43492	Advance Horse Feed	Baltimore	**9.26**	10.00	**2.50**	2.00	**11.10**	15.00
43479	4 o'clock Scratch Grains	Baltimore	**11.67**	10.00	**3.55**	5.00	**3.15**	3.00
43493	77 Scratch Feed	Baltimore	**10.71**	10.00	**3.33**	2.00	**2.80**	5.00
43480	Vitality Egg Mash	Baltimore	**19.31**	20.00	**5.60**	4.00	**6.50**	7.00
43494	Vitality Horse Feed	Baltimore	**10.44**	10.00	**1.60**	2.00	**15.23**	15.00
43748	Vitality Milk Ration		**24.48**	24.00	**5.75**	5.00	**9.55**	10.00

45748	Vitality Milk Ration							

	M. V. Rumkles, Mt. Airy, Md.								
43209	Bran	Mt. Airy	**13.95**	14.00	**4.65**	5.00	**9.70**	10.00	
43210	Middlings	Mt. Airy	**14.83**	15.00	**5.30**	5.00	**5.10**	6.00	
	Russell-Miller Milling Co., Minneapolis, Minn.								
43707	Alta Pure Wheat Middlings		**19.22**	15.00	**6.65**	4.50	**7.50**	8.50	
	Ryde & Co., Chicago, Ill.								
43699	Cream Quality Calf Meal		**26.59**	25.00	**4.47**	5.00	**5.45**	6.75	
43700	Have-To Lay Egg Mash		**21.50**	20.00	**5.20**	4.00	**6.97**	7.00	
43698	Startrite Chick Food		**17.68**	14.00	**6.12**	4.00	**2.80**	3.75	
	Wm. G. Scarlett & Co., Baltimore, Md.								
43534	Oriole Brand AAA Pigeon	Baltimore	**16.06**	16.00	**2.90**	3.00	**4.43**	4.00	
43536	Oriole Brand Chick Developer	Baltimore	**12.55**	10.60	**3.43**	3.70	**2.30**	3.00	
43535	Oriole Brand H. G. Beef Scraps	Baltimore	**55.55**	50.00	**11.23**	12.00	**1.30**	3.00	
43537	Oriole Brand H. G. Chick Starter	Baltimore	**11.93**	10.60	**3.70**	3.70	**2.48**	3.00	
43508	Oriole Brand H. G. Dry Mash	Baltimore	**21.85**	20.00	**4.53**	4.00	**9.68**	5.00	
43509	Oriole Brand H. G. Scratch Feed	Baltimore	**11.23**	10.50	**3.35**	3.50	**2.85**	4.00	
43538	Oriole Brand Special Pigeon Feed	Baltimore	**14.70**	16.00	**3.15**	3.00	**3.55**	4.00	
	Security Mills & Feed Co., Knoxville, Tenn.								
43361	Security Dairy Feed	Baltimore	**26.68**	24.00	**7.10**	5.00	**10.07**	10.00	
	Shane Bros. & Wilson, Minneapolis, Minn.								
43330	Flour Middlings	Denton	**16.85**	15.00	**5.22**	4.00	**5.72**	8.00	
43284	Snowball Wheat Flour Midd.	Frederick	**17.38**	16.00	**3.89**	4.00	**5.50**	6.00	
	Sheets Elevator Co., Cleveland, Ohio.								
43734	Diamond Chick Grains		**12.68**	10.00	**2.63**	2.00	**2.10**	6.00	
43716	Diamond Horse Feed		**9.83**	9.50	**3.55**	3.75	**7.65**	9.00	
43735	Haskell's Stock Feed		**10.35**	9.00	**5.25**	6.00	**8.18**	6.00	
43715	S. B. Alfalfa Horse Feed		**9.92**	10.00	**2.50**	2.50	**11.58**	14.80	
43714	S. B. Horse & Mule Feed Wet		**11.23**	9.50	**4.83**	3.75	**8.45**	9.50	
	Sheffield-King Milling Co., Minneapolis, Minn.								
43757	"Fairybow" Middlings & Screenings		**16.58**	15.00	**5.60**	5.00	**7.75**	9.50	
43756	Fancy "Brodflake" Bran & Gr'd. Screenings		**14.92**	14.50	**5.77**	4.00	**10.90**	11.00	
43758	"Gold Mine" Feed		**15.45**	15.00	**6.00**	4.50	**9.17**	10.00	
43759	"Whitehope" Middlings & Screenings		**16.85**	16.00	**6.00**	4.50	**5.15**	6.00	
	M. L. Shoemaker & Co., Philadelphia, Pa.								
43285	Ground Beef Scrap	Frederick	**55.85**	55.00	**18.10**	10.00	**4.06**	1.00	
	Simpson Co., Baltimore, Md.								
43803	Wasco Brand 45-50 Meat Scrap	Baltimore	**49.98**		**15.00**		**1.45**		
	Speir & McKay, Dealers, Atlanta, Ga.								
43321	Prime Cottonseed Meal	Rockville	**40.54**	38.00	**7.58**	6.00	**10.50**	10.00	

No.	Name of Manufacturer and Feeding Stuffs.	Place of Sampling.	Protein		Fat or Ether Extract		Crude Fiber	
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed
	Spencer Kellogg & Sons, Inc., Buffalo, N. Y.							
43530	Pure Old Process Oil Meal	Baltimore	**35.80**	35.00	**6.85**	5.00	**8.18**	10.00
43800	Pure Old Process Oil Meal	Baltimore	**36.51**	36.00	**6.20**	5.00	**8.00**	10.00
	A. E. Staley Mfg. Co., Decatur, Ill.							
43286	Gluten Feed	Frederick	**26.85**	23.00	**1.26**	1.00	**5.90**	8.00
43739	Soy Bean Meal		**42.91**	38.00	**4.95**	4.50	**6.35**	7.00
	Standard Milling Co., Clarksburg, W. Va.							
43404	Hen's Delight Scratch Feed	Oakland	**10.44**		**3.96**		**2.75**	
	Star Food & Remedy Co., Washington, D. C.							
43786	Chic A Food for Baby Chicks	Hyattsville	**15.80**	17.00	**5.00**	5.00		
43531	Milk Fattening Feed	Baltimore	**18.16**	18.00	**4.25**	4.00	**8.40**	9.00
43460	Milk Mash for Laying Fowls	Baltimore	**16.08**	20.00	**4.60**	6.00	**7.10**	7.00
43785	Milk Mash for Laying Fowls	Hyattsville	**18.39**	20.00	**4.35**	6.00		
43784	Scratch Feed for Laying Fowls	Hyattsville	**10.97**	10.00	**3.38**	4.00		
	Wm. H. Stellmann, Baltimore, Md.							
43230	Brewers' Dried Grains	Baltimore	**23.17**	25.00	**6.35**	6.00	**16.72**	13.00
	D. A. Stickell & Sons, Hagerstown, Md.							
43354	Blue Ridge Dairy	Hagerstown	**22.46**	21.00	**4.31**	4.50	**12.35**	13.00
43355	Blue Ridge Egg Mash	Hagerstown	**20.71**	16.00	**4.96**	3.50	**10.95**	12.00
43356	Egg Mash	Hagerstown	**24.71**	20.00	**5.47**	4.00	**8.60**	10.00
43357	Milk Rations	Hagerstown	**27.20**	25.00	**5.75**	4.50	**9.42**	10.00
43322	Pure Wheat Bran	Linwood	**15.88**	14.00	**4.75**	4.00	**9.63**	10.00
43358	Pure Wheat Middlings	Hagerstown	**18.69**	16.00	**4.43**	4.00	**5.58**	6.00
43359	Stock Feed	Smithsburg	**11.06**	9.00	**4.43**	3.50	**12.43**	12.00
43249	Victor Scratch Grain	Baltimore	**10.71**	10.00	**3.20**	2.50	**2.95**	5.00
	F. W. Stock & Son, Hillsdale, Mich.							
43543	Bran	Laurel	**18.78**	14.00	**4.60**	3.00	**9.80**	10.00

43543	Bran	Laurel	18.78	14.00	4.60	3.00	9.80	10.00

	Suffolk Oil Mill, Suffolk, Va.								
43572	Nansemond Peanut Meal	Baltimore	46.14	45.00	6.93	7.00	5.72	8.00
	Sugarine Co., Owensboro, Ky.								
43461	Buttermilk Egg Mash	Baltimore	20.01	20.00	4.15	5.00	7.02	8.00
43510	Chick Feed	Baltimore	10.18	10.00	2.60	2.50	1.95	5.00
43373	Dairy Feed	Walkersville	20.67	16.50	3.85	3.50	10.85	12.00
43374	National Dairy Feed	Walkersville	20.62	20.00	5.12	4.50	7.17	9.00
43511	Record Dairy Feed	Baltimore	27.21	24.00	4.50	4.50	8.55	10.00
43495	Universal Scratch Feed	Baltimore	11.06	10.00	3.65	2.50	3.70	5.00
	Swift & Co., Chicago, Ill.								
43532	Digester Tankage	Baltimore	61.16	60.00	12.50	6.00	4.14	3.00
43287	Eureka Meat Bone Scraps	Frederick	55.11	55.00	13.15	6.00	3.00	3.00
43288	Laymore Meat Bone Scraps	Frederick	45.81	45.00	10.78	6.00	2.57	3.00
43708	Poultry Bone		27.64	25.00	4.82	2.00	1.43	3.00
43709	Soluble Blood Flour		83.19	80.00			.90	3.00
	Tennant & Hoyt Co., Lake City, Minn.								
43462	Middlings	Baltimore	19.18	16.00	4.57	5.00	7.95	8.00
	Texas Cake & Linseed Co., Dallas, Texas.								
43405	Panhandle Brand Cottonseed Meal & Cake	Oakland	39.84	36.00	6.34	5.00	12.55	20.00
	Thomas & Co., Frederick, Md.								
43323	Dairy Feed	Barnesville	14.59	16.50	2.10	3.50	11.64	16.00
	Toledo Grain & Milling Co., Toledo, Ohio.								
43273	Camp's Flaked Corn & Oats	Baltimore	10.53	10.00	3.65	4.00	4.60	8.00
43406	Camp's C-O-B Chop Feed	Oakland	10.27	9.00	3.06	3.50	10.65	9.00
43407	Camp's Egg Mash	Oakland	17.20	16.00	4.26	4.00	7.10	7.00
43408	Camp's Standard Wheat Middlings	Oakland	17.86	15.50	5.27	6.00	7.54	5.00
	Toledo Seed & Oil Co., Toledo, Ohio.								
43588	Major Brand Old Process Oil Meal	Baltimore	33.26	33.00	5.39	6.00	7.71	10.00
43289	Major Brand Old Process Oil Meal	Frederick	35.72	33.00	5.92	6.00	8.90	10.00
	Triangle Mill Co., North Kansas, Mo.								
43414	Beets, Grain, Horse & Mule Feed	Baltimore	12.25	9.00	1.88	2.50	9.05	12.00
	Ubiko Milling Co., Cincinnati, Ohio.								
43409	Fourex Dairy Feed	Cumberland	22.29	20.00	4.73	4.00	11.12	12.00
43736	Growing Mash, with Buttermilk		17.99	15.00	4.30	4.00	3.83	6.00
43724	Gypsy Horse Feed		10.71	10.00	3.25	3.00		
43737	Scratch Feed (No Grit)		10.62	10.00	3.88	2.50	3.58	5.00
43738	Sunbeam Dairy Ration		21.76	20.00	5.00	3.00	9.75	12.00
43324	Union Grains	Sykesville	25.45	24.00	5.20	5.00	9.05	10.00

No.	Name of Manufacturer and Feeding Stuffs.	Place of Sampling.	Protein		Fat or Ether Extract		Crude Fiber	
			FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed
	Van Iderstine Co., Long Island City, N. Y.							
43781	Digester Tankage 50%		**57.57**	50.00	**12.90**	1.00	**3.25**	3.00
43583	High Protein Meat Scraps for Poultry	Laurel	**60.02**	55.00	**13.19**	5.00	**3.49**	3.00
43250	Meat Scraps H. G. for Poultry	Baltimore	**58.62**	55.00	**5.10**	5.00	**4.85**	3.00
43782	Pure Ground Meat Scraps		**50.29**	45.00	**4.30**	5.00	**3.30**	3.00
	Wabash Roller Mills, Wabash, Minn.							
43384	Big Jo Pure Wheat Midds	Frederick	**18.82**	15.00	**5.63**	4.80	**3.87**	4.10
	Washburn-Crosby Co., Minneapolis, Minn.							
43544	Arlington Flour	Laurel	**15.80**	14.00	**3.05**	4.00	**.60**	4.00
43385	Durum Wheat Red Dog Flour	Frederick	**20.23**	16.00	**5.93**	3.00	**2.66**	4.00
43233	Wheat Middlings	Baltimore	**18.21**	15.00	**6.18**	4.00	**12.36**	9.50
	C. B. Watkins & Co., Baltimore, Md.							
43512	Foxhall Laying Mash	Baltimore	**17.90**	20.00	**5.30**	4.00	**6.80**	7.00
	Western Feed Manufacturers, Inc., Chicago, Ill.							
43730	Cob Chop		**16.54**	10.00	**6.29**	4.00	**9.25**	10.00
43731	Gro Big Calf Meal		**20.76**	18.00	**4.03**	5.00	**6.70**	5.00
43729	Rep Dairy Feed		**14.00**	16.00	**3.25**	4.00	**11.50**	12.00
43732	Rep Scratch Feed		**10.44**	10.00	**3.75**	3.00	**2.78**	5.00
	Western Grain Products Co., Hammond, Ind.							
43725	Calumet Alfalfa Horse Feed		**10.88**	10.00	**2.85**	2.50	**11.40**	15.00
43726	Calumet Dairy Feed		**21.32**	20.00	**4.25**	4.00	**10.50**	13.50
43755	Calumet Scratch Feed		**10.71**	10.00	**3.60**	2.50	**2.60**	5.00
43727	Hammond Dairy Feed		**18.87**	16.50	**5.05**	4.00	**11.33**	13.50
43728	Unity Dairy Ration		**25.18**	24.00	**5.38**	5.00	**9.60**	10.00
	Wilkins Rodgers Mill Co., Washington, D. C.							
43325	Arlington Dairy Feed	Derwood	**22.46**	20.00	**5.03**	5.00	**8.68**	8.00
43326	Grassy Mead Dairy Feed	Rockville	**25.89**	26.00	**4.38**	5.00	**7.80**	9.00
	Wilson & Co., Chicago, Ill.							
43568	Red "W" Brand Digester Tankage	Baltimore	**64.30**	60.00	**4.49**	6.00	**2.33**	5.00
43275	Red "W" Brand Digester Tankage Meat Meal	Baltimore	**64.28**	60.00	**5.85**	6.00	**2.50**	5.00
43585	Red "W" Brand Meat Scraps for Poultry	Baltimore	**52.65**	50.00	**9.48**	6.00	**1.79**	5.00